CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, August 2, 1906.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.), and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue.
Aug.				
*2	Reservoir	Altoona, Pa.	S. & B. S.	6-21
4	Power plant mchny.	Norfolk, Va.	S.	7-12
4	Chimney	New Orleans, La.	S.	7-12
7	Pumping plant	Billings, Mont.	P., S. & B. S.	7- 5
*8	Macadam	Camden, N. J.	P., S. & B. S.	7-19
*8	Pipe, etc.	Philadelphia, Pa.	S. & B. S.	7-26
*8	Dredging	Boston, Mass.	P., S. & B. S.	7-26
9	Paving	Memphis, Tenn.	P., S. & B. S.	6-26
13	Bridge	Battleford, Sask.	P.	7-19
*13	Concrete piers	Battleport, Sask.	P.	8- 2
*15	Dredging	Philadelphia, Pa.	S. & B. S.	8- 2
*17	Sewers	Portland, Ore.	P., S. & B. S.	7-26
*23	Grading, steel bars	Billings, Mont.	P. & S.	7-12
*30	Boilers and Chimney	Galveston, Tex.	S. & B. S.	7-26
*30	Canals and ditches	Williston, N. Dak.	P. & S.	7-12
*30	Tunnel	Salt Lake City, Utah	P., S. & B. S.	6-21
Sept.				
15	Hotel bldg.	Manila, P. I.	S.	3-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Aug. 2. Light plant, Lowellville, Ohio ..... July 19
Aug. 4. Heating plant, Stonebluff, Ind. ..... July 26
Aug. 7. Power house, Pointwood, N. Y. ..... Aug. 2
Aug. 10. Boilers, Winona, Minn. ..... Aug. 2
Aug. 10. Lights, Mobile, Ala. ..... July 26
Aug. 13. Lighting plant, Sunnyside, Wash. ..... Aug. 2
Advertised, Eng. News, July 12 to 26.
Aug. 14. Elec. apparatus, Williston, N. Dak. ..... July 12
Aug. 18. Power-house, Elizabeth, Pa. ..... Aug. 2
Aug. 22. Heating plant, Deadwood, S. Dak. ..... Aug. 2
Sept. 10. Electric machinery, Williston, N. Dak. ..... July 19
Advertised, Eng. News, July 19 to Aug. 16.
Sept. 12. Transformer plant, Chicago, Ill. ..... July 26
Sept. 18. Lighting, Pottsville, Pa. ..... July 12

BRIDGES.

Aug. 2. Two bridges, Indianapolis, Ind. ..... July 26
Aug. 4. Culverts, Cleveland, Ohio ..... July 26
Aug. 4. Bridge approach, Lyons, Iowa ..... July 19
Advertised, Eng. News, July 19 to Aug. 9.
Aug. 6. Abutments, Jefferson, Ohio ..... July 19
Aug. 6. Two bridges, Tipton, Ind. ..... July 19
Aug. 6. Two bridges, Conconully, Wash. ..... July 19
Aug. 6. Concrete arches, Rushville, Ind. ..... July 26
Aug. 6. Superstructure, Moncton, N. B. ..... July 26
Aug. 6. Bridge, Danville, Ind. ..... July 26
Aug. 6. Bridge repairs, Lexington, Miss. ..... July 26
Aug. 6. Bridge, Orwell, Ohio ..... Aug. 2
Aug. 6. Three bridges, Kentland, Ind. ..... Aug. 2
Aug. 6. Bridge, Vicksburg, Miss. ..... Aug. 2
Aug. 7. Bridges, Newcastle, Ind. ..... Aug. 2
Aug. 7. Bridge, Independence, Ohio ..... Aug. 2
Aug. 7. Bridge, Savannah, Mo. ..... Aug. 2
Aug. 7. Bridge, Newton, Mass. ..... July 26
Aug. 7. Three bridges, Vincennes, Ind. ..... July 19
Aug. 8. Four bridges, Geneseo, Ill. ..... Aug. 2
Aug. 8. Bridge, Huntington, Ind. ..... Aug. 2
Aug. 10. Viaduct, Covington, Ind. ..... July 26
Aug. 11. Reconstruction, Fortress Monroe, Va. ..... July 19
Advertised, Eng. News, July 19 and 26.
Aug. 13. Two bridges, Topeka, Kans. ..... July 12
Aug. 13. Piers and abutments, Regina, Sask. ..... July 26
Aug. 13. Superstructure, Zanesville, Ohio ..... July 26
Aug. 13. Two bridges, New Rockford, N. Dak. ..... Aug. 2
Aug. 13. Concrete piers, Battleford, Sask. ..... Aug. 2
Advertised, Eng. News, Aug. 2.
Aug. 15. Bridge masonry, Winston-Salem, N. C. ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 16. Viaduct, Cleveland, Ohio ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 17. Three bridges, Portsmouth, Ohio ..... July 26
Aug. 20. Bridge, St. Clairsville, Ohio ..... Aug. 2
Aug. 25. Bridge, Huntley, Mont. ..... Aug. 2
Aug. 30. Two bridges, New Philadelphia, Ohio ..... Aug. 2
No date. Bridge plans, Paducah, Ky. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.

BUILDINGS.

Aug. 6. Employees' building, Rome, N. Y. ..... July 12
Advertised, Eng. News, July 12 to 26.
Aug. 6. Weaving shed, Almonte, Ont. ..... Aug. 2
Aug 7. Six buildings, Jackson, Miss. ..... July 12
Aug. 9. Cleaning system, Wheeling, W. Va. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 9. School building, Saginaw, Mich. ..... Aug. 2
Aug. 10. Jail, St. Louis, Mo. ..... Aug. 2
Aug. 10. College building, Ames, Ia. ..... July 19
Aug. 10. College building, Ames, Iowa ..... July 19
Aug. 11. Bldg. & brick chimney, Charleston, S. C. ..... July 26
Aug. 15. Club-house, Washington, D. C. ..... July 26
Aug. 20. Jail, Salisbury, N. C. ..... Aug. 2
Aug. 21. Plant, Wilmington, Del. ..... Aug. 2
Aug. 24. Door screens, Delaware City, Del. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 23.
Aug. 25. Screen doors, Dodge, Ga. ..... July 26
Advertised, Eng. News, July 26 to Aug. 16.
Aug. 27. Court-house, Gallatin, Mo. ..... July 19
Aug. 28. Court-house, Gallatin, Mo. ..... Aug. 2
Aug. 29. Plumbing, Albany, N. Y. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 23.
Aug. 30. 3-story C. S. P. S. lodge building, theater and gymnasium, Traverse City, Mich. ..... Aug. 2
Sept. 15. Hotel, Manila, P. I. ..... Mar. 29

WATER SUPPLY AND IRRIGATION.

Aug. 2. Storage reservoir, Altoona, Pa. ..... June 21
Advertised, Eng. News, June 21 to July 19.
Aug. 2. Water-works, Kingsley, Mich. ..... July 19
Advertised, Eng. News, July 19.
Aug. 2. Pipe line, Los Angeles, Cal. ..... July 26
Aug. 2. Pipe, Gillett, Wis. ..... July 26
Aug. 2. Water-works, Lowellville, Ohio ..... July 26
Aug. 3. Inflow, Wellsville, Ohio ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 3. Water-works, Garrettsville, Ohio ..... July 26
Aug. 4. Pipe, Washington, D. C. ..... July 19
Advertised, Eng. News, July 19 and 26.
Aug. 6. Pumping engines, Orange, N. J. ..... July 12
Advertised, Eng. News, July 12.
Aug. 7. Pumping plant, Billings, Mont. ..... June 21
Advertised, Eng. News, June 21 to July 5.
Aug. 7. Supplies, Aurora, Minn. ..... July 26
Aug. 7. Pumping station, San Jose, Cal. ..... July 26
Aug. 7. Dam and reservoir, Warrenton, Va. ..... Aug. 2
Aug. 7. Reservoir, etc., Croton Falls, N. Y. ..... Aug. 2
Aug. 8. Water-works, Otterbein, Ind. ..... Aug. 2
Aug. 8. Extension, Fort Terry, N. Y. ..... July 26
Aug. 8. Pipe, etc., Philadelphia, Pa. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 9. Pump-house, etc., Fort Snelling, Minn. ..... July 26
Aug. 10. Boilers, Chicago, Ill. ..... Aug. 2
Aug. 13. Filter reservoir, Wilmington, Del. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 13. Water-works, Sunnyside, Wash. ..... Aug. 2
Aug. 14. Water-works, Saskatoon, Sask. ..... July 26
Aug. 14. Pumps, Portsmouth, N. H. ..... July 26
Aug. 15. Engine house, etc., New York, N. Y. ..... Aug. 2
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 21. Valve system, Buffalo, N. Y. ..... Aug. 2
Aug. 21. Laying pipe, Cincinnati, Ohio ..... Aug. 2
Aug. 23. Reservoir, etc., White Plains, N. Y. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.
Aug. 24. Reservoir, Asheville, N. C. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.
Aug. 27. Pumps, Winnipeg, Man. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.
Aug. 28. Artesian well, Newport, R. I. ..... Aug. 2
Aug. 30. Reservoir, Fort Wingate, N. Mex. ..... Aug. 2
Aug. 30. Boilers & chimney, Galveston, Tex. ..... July 26
Sept. 4. Water-works, Malta, Ohio ..... July 26
Sept. 5. Two reservoirs, New Orleans, La. ..... June 21
Advertised, Eng. News, June 21 to Aug. 30.
Sept. 28. Pumping plant, Garden City, Kans. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to Sept. 6.

SEWERAGE.

Aug. 2. Sewers, Ogden, Utah ..... July 26
Aug. 2. Sewers, Carroll, Iowa ..... July 26
Aug. 2. Sewers and drains, Cincinnati, Ohio ..... July 19
Aug. 3. Sewers, Malden, Mass. ..... July 12
Advertised, Eng. News, July 12.
Aug. 3. Sewer, Portland, Me. ..... Aug. 2
Aug. 4. Sewers, Ogden, Utah ..... July 12
Aug. 6. Sewers, Washington, D. C. ..... July 19
Advertised, Eng. News, July 19 and 26.
Aug. 6. Sewer, Evansville, Wyo. ..... July 19
Aug. 6. Sewer, Grand Forks, N. Dak. ..... July 19
Aug. 6. Sewer, Norwalk, Conn. ..... Aug. 2
Aug. 6. Sewers, Sault Ste. Marie, Ont. ..... Aug. 2
Aug. 6. Sewers, Hancock, Mich. ..... Aug. 2
Aug. 6. Sewers, Savanna, Ill. ..... Aug. 2
Aug. 6. Sewers, New York, N. Y. ..... Aug. 2
Aug. 6. Sewers, Chester, Pa. ..... Aug. 2
Aug. 7. Sewers, Escanaba, Mich. ..... July 26
Aug. 8. Sewers and basins, New York, N. Y. ..... Aug. 2
Aug. 8. Sewers, Lewiston, Idaho ..... Aug. 2
Aug. 8. Sewers, Downers Grove, Ill. ..... Aug. 2
Aug. 9. Sewer, Claremore, Ind. T. ..... July 26
Aug. 10. Sewers, Janesville, Wis. ..... July 26
Aug. 11. Sewers, Seneca Falls, N. Y. ..... July 19
Advertised, Eng. News, July 19 and 26.
Aug. 13. Sewers, Oshkosh, Wis. ..... Aug. 2
Aug. 14. Sewers, Cleveland, Ohio ..... Aug. 2
Aug. 14. Sewer, Salem, Ohio ..... Aug. 2
Aug. 17. Sewer, Portland, Ore. ..... July 26
Advertised, Eng. News, July 26 to Aug. 9.
Aug. 27. Sewers, Lockland, Ohio ..... Aug. 2
Sept. 1. Sewers, Basin, Wyo. ..... Aug. 2
Sept. 7. Sewer gates, Manila, P. I. ..... July 5
Advertised, Eng. News, July 5 to Aug. 23.

STREETS AND ROADS.

Aug. 2. Grading, etc., New York, N. Y. ..... July 26
Aug. 3. Paving, Washington, D. C. ..... July 26
Advertised, Eng. News, July 26.
Aug. 3. Paving, Buffalo, N. Y. ..... July 26
Aug. 3. Rubble stone paving, Petersburg, Va. ..... July 19
Aug. 3. Brick paving, Cincinnati, Ohio ..... July 19
Aug. 3. Paving, Petersburg, Va. ..... July 12
Advertised, Eng. News, July 12 to 26.
Aug. 4. Road work, Ebensburg, Pa. ..... July 26
Aug. 4. Constructing road, Verona, Ky. ..... Aug. 2
Aug. 6. Paving, Piqua, Ohio ..... Aug. 2
Aug. 6. Paving, Johnstown, N. Y. ..... Aug. 2
Aug. 6. Repairing roads, Troy, N. Y. ..... Aug. 2
Aug. 6. Paving, Ottumwa, Iowa ..... Aug. 2
Aug. 6. Paving, Pontiac, Mich. ..... Aug. 2
Aug. 6. Macadam, Princeton, Ind. ..... Aug. 2
Aug. 6. Paving, East Chicago, Ind. ..... Aug. 2
Aug. 6. Paving, Wauseon, Ohio ..... Aug. 2
Aug. 6. Road, Boston, Mass. ..... Aug. 2
Aug. 6. Road work, Baltimore, Md. ..... Aug. 2
Aug. 6. Sidewalks, etc., Fort Totten, N. Y. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 6. Paving, etc., New York, N. Y. ..... July 26
Aug. 6. Gravel road, Brookfield, Ind. ..... July 26
Aug. 6. Gravel road, Columbus, Ind. ..... July 26
Aug. 6. Gravel road, Jasper, Ind. ..... July 19
Aug. 6. Gravel roads, Bloomfield, Ind. ..... July 19
Aug. 6. Paving, St. Paul, Minn. ..... July 19
Aug. 6. Gravel roads, Crownpoint, Ind. ..... July 19
Aug. 6. Grading and paving, Ashland, Ohio ..... July 19
Aug. 7. Gravel roads, Brazil, Ind. ..... July 19
Aug. 7. Gravel roads, Bedford, Ind. ..... July 19
Aug. 7. Gravel roads, Vincennes, Ind. ..... July 19
Aug. 7. Paving, etc., Salisbury, Md. ..... July 19
Advertised, Eng. News, July 19 to Aug. 2.
Aug. 7. Gravel road, Petersburg, Ind. ..... July 26
Aug. 7. Gravel road, Martinsville, Ind. ..... July 26
Aug. 7. Road, Ravenna, Ohio ..... July 26
Aug. 7. Macadam, Pleasant Ridge, Ohio ..... July 26
Aug. 7. Gravel road, Covington, Ind. ..... Aug. 2
Aug. 7. Park improvements, Chicago, Ill. ..... Aug. 2
Aug. 8. Paving, Anniston, Ala. ..... Aug. 2
Aug. 8. Grading, Richmond, Ind. ..... Aug. 2
Aug. 8. Roads, Providence, R. I. ..... Aug. 2
Aug. 8. Road work, Chehalis, Wash. ..... Aug. 2
Aug. 8. Gravel road, Rockville, Ind. ..... July 26
Aug. 8. Gravel roads, Bloomington, Ind. ..... July 26
Aug. 8. Gravel road, Paoli, Ind. ..... July 19
Aug. 8. Macadam, Camden, N. J. ..... July 19
Aug. 9. Paving, Memphis, Tenn. ..... July 26
Aug. 9. Asphalt paving, Memphis, Tenn. ..... July 19
Aug. 9. Constructing Park, New York, N. Y. ..... Aug. 2
Aug. 9. Paving, etc., New York, N. Y. ..... Aug. 2
Aug. 9. Steam roller, New York, N. Y. ..... Aug. 2
Aug. 9. Park paving, etc., New York, N. Y. ..... Aug. 2
Aug. 10. Paving, St. Louis, Mo. ..... Aug. 2
Aug. 10. Macadam, etc., Waukegan, Ill. ..... Aug. 2
Aug. 11. Paving, etc., Portsmouth, Ohio ..... July 26
Aug. 11. Gravel road, Terre Haute, Ind. ..... Aug. 2
Aug. 11. Macadam, Paulding, Ohio ..... Aug. 2
Aug. 12. Gravel road, Valparaiso, Ind. ..... July 19
Aug. 13. Paving, Ashland, Ky. ..... Aug. 2
Aug. 13. Paving, Oil City, Pa. ..... Aug. 2
Advertised, Eng. News, Aug. 2.
Aug. 13. Macadam, Mount Holly, N. J. ..... Aug. 2
Aug. 13. Paving, Adrian, Mich. ..... Aug. 2
Advertised, Eng. News, Aug. 2.
Aug. 14. Macadam, Des Moines, Iowa ..... Aug. 2
Aug. 14. Paving, etc., St. Louis, Mo. ..... Aug. 2
Aug. 14. Paving, Independence, Kans. ..... July 19
Advertised, Eng. News, July 19.
Aug. 14. Road work, Cleveland, Ohio ..... July 26
Aug. 15. Road work, Augusta, Me. ..... Aug. 2
Aug. 17. Grading, etc., Cincinnati, Ohio ..... Aug. 2
Aug. 20. Macadam, Wilkes-Barre, Pa. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.
Aug. 20. Paving, Fredonia, N. Y. ..... Aug. 2
Aug. 23. Grading, etc., White Plains, N. Y. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.
Aug. 27. Sidewalks, Salem, N. J. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 16.

MISCELLANEOUS CONTRACTS.

Aug. 2. Concrete dock, Michigan City, Ind. ..... July 26
Aug. 3. Canal, Port Huron, Mich. ..... July 12
Advertised, Eng. News, July 12 and 19.
Aug. 3. Corral fences, Ft. Ethan Allen, Vt. ..... July 12
Advertised, Eng. News, July 12 to 26.
Aug. 5. Destructors, Edmonton, Alta. ..... July 5
Advertised, Eng. News, July 5 and 12.
Aug. 6. Drain, Eldora, Iowa ..... July 26
Aug. 6. Piles, oak lumber, New York, N. Y. ..... Aug. 2
Aug. 7. Dam apron, Albany, N. Y. ..... July 26
Aug. 7. Ditch, Moorhead, Minn. ..... July 26
Aug. 7. Tunnel, Boston, Mass. ..... July 26
Advertised, Eng. News, July 26 and Aug. 2.
Aug. 7. Naval supplies, Washington, D. C. ..... July 26
Aug. 7. Timber wharf, Seattle, Wash. ..... July 26
Aug. 7. Pumping plant, Billings, Mont. ..... June 21
Advertised, Eng. News, June 21 to July 19.
Aug. 8. Dredging, Boston, Mass. ..... July 26
Advertised, Eng. News, July 26.
Aug. 9. Levee, New Orleans, La. ..... July 26
Aug. 9. Levee, Memphis, Tenn. ..... July 12
Advertised, Eng. News, July 12 to Aug. 2.
Aug. 13. Granite posts, etc., Newport News, Va. ..... July 12
Advertised, Eng. News, July 12 and 19.
Aug. 14. Light-house, Mobile, Ala. ..... July 19
Advertised, Eng. News, July 19 to Aug. 16.
Aug. 14. Naval supplies, Washington, D. C. ..... July 26
Aug. 14. Bear trap, Wheeling, W. Va. ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 15. Railway work, concrete, Syracuse, N. Y. ..... Aug. 2
Advertised, Eng. News, Aug. 2.
Aug. 15. Dredging, Philadelphia, Pa. ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 15. Masonry, cofferdams, etc., Winston-Salem, N. C. ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 20. Dredges, St. Louis, Mo. ..... July 19
Advertised, Eng. News, July 19, 26, Aug. 9 and 16.
Aug. 21. Naval supplies, Washington, D. C. ..... July 26
Aug. 23. Grading, steel bars, Billings, Mont. ..... July 12
Advertised, Eng. News, July 12 to 26.
Aug. 28. Lathe, grinder, etc., Washington, D. C. ..... Aug. 2
Advertised, Eng. News, Aug. 2 and 9.
Aug. 30. Canals, etc., Williston, N. Dak. ..... July 12
Advertised, Eng. News, July 12 to 26.
Aug. 30. Tunnel, Boston, Mass. ..... June 21
Advertised, Eng. News, June 21 to July 26.
Aug. 30. Tunnel, Salt Lake City, Utah ..... June 21
Aug. 31. Drainage, St. Augustine, Fla. ..... July 19
Aug. 31. Dipper dredge, St. Augustine, Fla. ..... July 19
Sept. 1. Storage works, Concully, Wash. ..... July 26
Advertised, Eng. News, July 26 to Aug. 16.
Sept. 4. Railway supplies, Siam (Foreign) ..... Apr 26
Advertised, Eng. News, Apr. 26.
Sept. 4. Cars, Bangkok, Siam ..... May 31
Advertised, Eng. News, May 3 and 10.
Sept. 4. Railway ties, Ottawa, Ont. ..... July 5
Sept. 11. Canals, ditches, Williston, N. Dak. ..... July 19
Advertised, Eng. News, July 19 to Aug. 9.
Sept. 12. Locomotives, Bangkok, Siam ..... May 31
Advertised, Eng. News, May 3 and 10.
Sept. 15. Canal, levee, Grosse Tete, La. ..... July 26
Sept. 15. Irrigation ditches, Hazen, Nev. ..... Aug. 2
Advertised, Eng. News, Aug. 2 to 30.
Sept. 17. Dam, Hermiston, Ore. ..... July 26
Advertised, Eng. News, July 26 to Aug. 16.
Sept. 18. Portland cement, Portland, Ore. ..... July 26
Advertised, Eng. News, July 26 to Aug. 9.
Sept. 26. River dredging, Chicago, Ill. ..... July 19
Sept. 26. Dredging plant, Chicago, Ill. ..... July 19
Oct. 1. Lock, Donaldsonville, La. ..... July 5
Advertised, Eng. News, July 5 to Sept. 27.
Oct. 15. Drains, Rio Grande do Sul, Brazil ..... May 31
Oct. 15. Steel sheds, Manila, P. I. ..... July 5
Oct. 15. Steel sheds, Rys., Manila, P. I. ..... July 19
Advertised, Eng. News, July 19 to Aug. 30.
No date. Grading, Cairo, Ill. ..... July 26
Advertised, Eng. News, July 26.

CIVIL SERVICE EXAMINATIONS.

Aug. 2. Subinspector, North Chicago, Ill. ..... July 26
Aug. 2. Foreman, North Chicago, Ill. ..... July 26
Aug. 8. Surveyor, Philippine Islands ..... July 5
Aug. 8. Arch. Draftsman, Tompkinsville, N. Y. ..... July 5
Aug. 15. Arch. Draftsman, Philippine Islands ..... July 5
Aug. 18. Marine Engr., Albany, N. Y. ..... July 26
Aug. 18. Asst. Civil Engr., Albany, N. Y. ..... July 26
Advertised, Eng. News, July 26.
Aug. 22. Tracer, Panama ..... July 19
Aug. 22. Science Engineer, Manila, P. I. ..... July 19
Aug. 29. Arch. Draftsman, Washington, D. C. ..... Aug. 9
Aug. 29. Inspector of Sewers, Manila, P. I. ..... Aug. 9
Aug. 29. Civil Engineer, Manila, P. I. ..... Aug. 9

Proposed Work

ENGINEERING NEWS desires to obtain the **EARLIEST POSSIBLE RELIABLE INFORMATION** concerning all projected work. We will appreciate any items that you may send us. Copies containing such information will be mailed to you, upon request.

Address, **Construction News Department**

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALTON, CALHOUN & QUINCY.—Incorporated in Illinois with $5,000 capital, with C. L. Wood, M. C. Johnson, J. J. Kinder, B. T. Douglas, G. W. Douglas, J. R. Vaughn and John Early as directors. The company proposes to build a line from Alton west to Grafton and Brussels, thence north via Hatchtown, Hamburg and Pleasant Hill to Quincy, Ill., approximately 100 miles.

ALBANY & HUDSON.—Company is planning to double-track its line between Albany, N. Y., and Electric Park at Kinderbrook Lake. G. G. Blakeslee is Second Vice-Pres. and Gen. Mgr., at Albany.

BROWNSVILLE, HIDALGO & NORTHERN.—It is planned by this company to build lines of railroad as follows: From Brazos Santiago to Hidalgo, Tex., 83 miles; from Brownsville to Corpus Christi, Tex., 140 miles, and from Corpus Christi to Houston, Tex., about 300 miles. The line from Brazos Santiago to Hidalgo has been surveyed and surveys are under way from Brownsville to Corpus Christi. It is expected to let contracts for these two lines about Sept. 1. Uriah Lott is Pres.; Jos. Browne, Vice-Pres.; John D. Hill, Secy.; P. E. Blalock, Treas., all with headquarters at Brownsville, Tex. E. B. Gore is Ch. Engr.

CANADIAN PACIFIC.—This company has ordered 60 passenger cars at cost of $400,000; 2,000 freight cars, at cost of $1,000,000; and other cars to cost $600,000. Cars will be built at the Angus shops.

CARROLLTON & WORTHVILLE. — An extension will be built from Worthville to Owenton, Ky., via Wheatley, New Liberty and Harrisburg, 20 miles. Preliminary survey is being made. H. Steubing, Louisville, Ky., is Ch. Engr.

CAIRO & THEBES.—The contract for building the first section of 5½ miles of this road from Cairo to Beech Ridge, Ill., has been awarded to the CARROLL CONSTRUCTION CO., of St. Louis, Mo. J. L. Armstrong is Ch. Engr., at Cairo, Ill.

CHICAGO, ZEIGLER & GULF.—Surveys are being made for an extension from Zeigler to Bryden, Ill., on the Mobile & Ohio, a distance of 25 miles, passing through Hallidayboro, and also for an extension from Zeigler Junction via Clinch to Duquoin, Ill., 15 miles. Construction on the Duquoin extension will begin immediately and it is expected to have it completed and ready for operation by October 1. C. C. Whittier is Ch. Engr., Zeigler, Ill.

CINCINNATI, COLUMBUS & TOLEDO.—Incorporated in Ohio to build a steam railroad from Cincinnati to Toledo, passing through the counties of Hamilton, Clermont, Brown, Highland, Clinton, Fayette, Madison, Pickaway, Franklin, Delaware, Marion, Wyandotte, Seneca, Sandusky, Wood, Hancock, Ottawa and Lucas. Capital stock, $10,000. Incorporators: R. C. Swing, H. J. Gibson, H. E. Frost, L. H. Huffman and C. D. Matthews, of Cincinnati, Ohio.

DAVIS & TURNER FALLS.—We are officially advised that this company has let contract to the MISSOURI CONSTRUCTION CO., with headquarters at Davis, Ind. T., for building the line from Davis to Turner Falls, Ind. T., about six miles in length. Four miles of grading is finished and ties delivered, and it is planned to commence laying track within 30 days. Surveys are run and right-of-way is secured. Capital is ready. Work is mountainous. R. H. Wilkin, Oklahoma City, Okla.; Guy V. McClure, Davis, is Gen. Mgr. and Ch. Engr.

DAKOTA MIDLAND.—Contracts for construction of this railway will be let probably in September. J. A. Frederickson, 1341 Vine Pl., Minneapolis, Minn., is Ch. Engr. Noted on July 19.

DENVER & RIO GRANDE.—The present narrow-gage line from Orange Junction, Colo., to Montrose, and to North Fork branch, from Delta to Somerset, will be changed to standard gage. E. T. Yard is Ch. Engr., at Denver, Colo.

GRAND TRUNK PACIFIC.—A contract has been awarded to RHODES, CURRY & CO., Amherst, N. S., for 2,500 cars of all kinds to be delivered within five years. Cost, $2,000,000.

ILLINOIS CENTRAL.—An official report states that track has been laid on the Illinois Central and affiliated lines since Jan. 1, as follows: Manchac to Frenier, La., second main track, 25.12 miles; Wickliffe to Fort Jefferson, Ky., change of line and double track diversion, 3.88 miles; Woodstock to Memphis, Tenn., change of line, 7.5 miles; Silver City to Kelso, Miss., new line, 17 miles; Parchman to Webb, Miss., new line, 15 miles; on Indianapolis Southern in Indiana, 9.6 miles. The following extensions are under way: New line, Corinth, Miss., to Haleyville, Ala., 80.23 miles; connection with Mobile & Ohio, at Jackson, Tenn., 3 miles; second track Atoka to Kerrville, Tenn., 5.5 miles; new line, Etter, Tenn., to Lakeview, Miss., 6.73 miles; connection at South Memphis, Tenn., 5 miles; Philipp to Providence, Miss., 28.18 miles. A. S. Baldwin is Ch. Engr., at Chicago, Ill.

MONETT & SOUTHWESTERN CONSTRUCTION CO.—Announcement is made that this company has been incorporated in Missouri to build a railroad from Monett to Pineville, Mo., 39 miles. Capital stock, $150,000. Incorporators: Charles D. Bennett, Maplewood; Henry W. Clark, St. Louis; John Anderson, St. Louis; John B. Christensen, Webster Groves; C. G. Mathey, Dawson, Ind. T.; Jorgen B. Nelson, Copenhagen, Denmark; C. W. Lehnhard, John Walsh, Solomon Newman, S. A. Chapell, John J. Davis, Henry Shontz, R. J. Parker, L. B. Durnil, S. W. Pierce, J. M. Russell, A. S. Hawkins, W. H. Smith, James Mansfield, Leroy Jeffries, J. V. Meagher, William West and C. C. Mills, all of Monett; A. W. Noel, O. St. John, E. E. Coffee, James N. Christensen, James A. Sturges, all of Pineville.

MEMPHIS, PARIS & GULF.—We are advised that surveys are under way and that right-of-way is being secured for this line which is to be built from Memphis, Tenn., to Dallas, Tex., about 400 miles. Capital is partly obtained. Part of the work is being contracted now. W. W. Brown, of Camden, Ark., is Pres. W. P. Hart, of Nashville, Ark.

MERIDIAN & TOMBIGBEE.—Surveys are made and right-of-way secured for this road which is to be built from Meridian, Miss., to Myrtlewood, Ala., 45 miles. Contracts will be let at once, we are advised by J. P. Phillips, Gen. Mgr., at Yantley, Ala. Capital is 50% secured. C. F. Woods, Meridian, is Pres.; F. D. Harvey, Auburn, Ala., is Ch. Engr. Previously noted.

MARIANNA, BRINKLEY & WESTERN.—W. P. Weld, Secy., Marianna, Ark., informs us that right-of-way is being obtained and that survey is in progress for this line, which is to be built from Marianna to Brinkley, Ark., about 30 miles. Date for letting contracts is not yet decided. Capital has been secured. Julius Lesser is Pres., St. Louis, Mo. G. W. L. Brown is Gen. Mgr., at Marianna.

NICOLA, KAMLOOPS & SIMILKAMEEN.—H. J. Cambri, Ch. Engr., Spence's Bridge, B. C., advises us that contract for the extension up Nicola Valley of the line graded in 1905-06, has been let to LOSS, MACDONELL & CO., who have begun grading. The extension will be seven miles long.

OKLAHOMA WESTERN.—Incorporated in Oklahoma in the interest of the Atchison, Topeka & Santa Fe to build the following lines of railroad: Line No. 1, beginning at Lindsay, in the Chickasaw Indian country, and running northwest through the Oklahoma counties of Caddo, Blaine, Custer, Dewey and Woodward to Alston, Okla., on the Panhandle Division of the Santa Fe, a distance of 162 miles. Line No. 2, from Oklahoma City northwest through the counties of Oklahoma, Canadian, Blaine and Dewey to a junction in Woodward county with line No. 1, a distance of 105 miles. Line No. 3, from Guthrie west through the counties of Logan, Kingfisher and Blaine to a junction in Western Blaine county with line No. 2, a distance of 65 miles. Capital stock, $6,040,000. Incorporators: Henry E. Asp, U. C. Guss, Frank H. Greer, Charles H. Woods, W. H. Merten and George M. Green, all of Guthrie.

PENNSYLVANIA R. R.—The JOHN A. KELLY CO., of Philadelphia, Pa., has been awarded the contract for the grading, masonry and tracklaying on a branch of the West Jersey & Seashore, five miles long, it is reported, from a connection with the tracks of the Delaware River Bridge Co., near West Haddonfield Junction, N. J. The branch is to be built to carry freight from the West Jersey & Seashore main line and branches in southern New Jersey to the Amboy division at Delair, without passing through Camden. Alexander C. Shand is Ch. Engr., Philadelphia, Pa.

PACIFIC RY. & NAVIGATION CO.—The line has been completed from Hillsboro to Banks, Ore., ten miles, and work is in progress from Banks to Veronia, 33 miles. A branch is proposed from O'Donnells Junction to Tillamook, 62 miles. E. E. Lytle is Pres., Portland, Ore.; Geo. L. Davis is Ch. Engr., Buckston Ore.

REDDING & RED BLUFF.—This railroad, which was being constructed from Redding to Munroville, Cal., has been sold to C. E. Loss, who will go on with the construction of the road and eventually will lay 250 miles of track in that section of the country. The possibilities for enlargement are unlimited, and the location is promising for a railroad. As soon as the main line is completed, branches will be thrown out and the eventual length of the line is to be about 250 miles. The articles of incorporation allow of the issuance of $4,000,000 worth of stock, although $150,000 only has been subscribed. The incorporators of the new concern are C. H. George, W. Tupper, T. J. Tobin, G. J. Reimer and C. E. Loss. Mr. Loss was formerly located in the Flood Bldg., San Francisco.

SOUTHERN PACIFIC.—Extensive improvements are being made on the Southern Pacific's lines in Texas, particularly on the Galveston, Harrisburg & San Antonio and the Texas & New Orleans. The division on the transcontinental line between Del Rio and El Paso, Tex., will soon be entirely laid with 90-lb. steel rails which are now the standard rails on the main line. In addition to 19 miles of these rails which have been laid on this division this year, 35 miles more are to be laid before Jan. 1. The block signal system is now being installed this side of New Orleans. The work is necessarily slow and it will be several years before the system is extended to El Paso. It is planned that by the close of 1907 the work will have reached Rosenberg, 40 miles west of Houston, and that each year thereafter 100 to 200 miles of the road will be equipped with the block signals.

TEXAS STATE R. R.—This railroad, extending from Rusk, Tex., 9.6 miles towards Palestine, is to be sold, and bids will be received up to August 8, 10 A. M. J. H. Walker, assistant financial agent at Rusk, Tex., can give further information. Bids should be sent to F. G. Lamham, Secy. of the State Penitentiary Board, at Austin, Tex. An extension to Palestine has been discussed.

TEXAS RY.—The ROCK ISLAND CONSTRUCTION CO. has made over its contract for building this railroad from Port O'Connor to San Antonio, Tex., to the HIPP CONSTRUCTION CO., of Houston, according to the Houston "Post."

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

GREAT BARRINGTON, MASS.—Engineers of the Consolidated Ry. Co., of New Haven, Conn., are reported to have completed preliminary surveys for the proposed extension of the Berkshire St. Railway from Great Barrington, Mass., to Canaan, Conn. The route will parallel the tracks of the Berkshire division of the steam system wherever possible or convenient, and lies on land already owned by the company. No definite date for the commencement of structural operations on the line has been decided on.

SYRACUSE, N. Y.—The Syracuse R. R. Construction Co., of Syracuse, will let contract on Aug. 15, for grading and masonry on Section No. 8, of the Rochester, Syracuse & Eastern R. R., from Savannah to Port Byron. The work consists of about seven miles of double-track and about 250,000 cu. yds. of excavation, 4,500 cu. yds. of concrete and about 30,000 lin. ft. of piling. About 2,700 cu. yds. of this concrete work will be in 27 piers and two abutments crossing the Seneca River, requiring sheet piling, cofferdam and caisson work. T. H. Mather, Ch. Engr., Syracuse. (Advertised Engineering News.)

Charles E. Hubbell, Vice-Pres. and Gen. Mgr. of the Syracuse & Suburban R. R. Co., announces that the directors have left to an executive committee the details of a projected extension from Manlius through Cazenovia and Delphi to Deruyter, 18 miles, to be double-tracked, in addition to the 12-mile main line from this city to Manlius. He says that work will be begun next spring, if not this fall. The line, with equipment, will cost about $1,000,000. Three schemes are being considered for the financing of the road: the increase of the capital stock of the Suburban Co., which is now $400,000; the organization of a new company to be united later, and the organization of a new company to build the road and then merge the old company. The present line is operated by water power developed at Edwards Falls and the company holds options on property at Delphi Falls, where a large amount of water power is as yet undeveloped.

LEBANON, PA.—Notice has been given of the intention of the Womelsdorf & Myerstown Ry. Co. to apply to the Governor for a charter. The proposed incorporators are Walter A. Rigg, J. Milton Miller, Harry H. Reigel, W. K. Eckert and William McIlvain, all of Reading, and all interested in the United Power & Transportation Co., of that city. The line will be about 9½ miles long, and will form the best connecting link in through trolley connection between Harrisburg and Reading via Lebanon. It will extend from Womelsdorf, where it will connect with the Reading & Womelsdorf Electric Ry. along the Berks & Dauphin Turnpike, and pass through the towns of Sheridan, Newmanstown and Richland to the Main St. terminal of the Lebanon Valley St. Ry. Co., in Myerstown.

BALTIMORE, MD.—Plans are being prepared by the Baltimore & Ocean City Ry. Co. for building a mono-rail line between Baltimore and Ocean City. Frank H. Sloan, Engr., is preparing drawings for a proposed route for the line. It is proposed to ferry across the Chesapeake Bay north of the Patapsco River, so as to make the water routes as short as possible. It is hoped to construct a road over which trains can make the trip of about 113 miles in less than two hours, as compared with more than five by the present route. It is reported that the company proposes, if possible, to make some arrangements for entering the city through the United Railways, but these arrangements are not likely to be perfected before the adoption of the new financial plan of the United.

BALTIMORE, MD.—A plan of reorganization of the finances of the United Railways & Electric Co., of Baltimore, has been approved by the Board of Directors and the income bondholders' committee. The plan provides for the issue of $14,000,000 5% 30-year bonds, of which $1,400,000 will be issued at once to be exchanged at face value for the coupons representing five semi-annual installments of interest in default on the $14,000,000 4% income bonds. The plan also provides for the consolidation of the Baltimore & Annapolis Short Line with the new Maryland Electric. The B. & A. S. L. is a steam line running from Cliffords, Md., to Annapolis, 22 miles, and has no funded debt. This line will be electrified, and the consolidated company will make a mortgage securing $8,000,000 5% 25-year bonds, of which about $4,000,000 will be issued soon to provide for the acquisition of terminal stations, car barns, and extensions, which will belong to the consolidated company, but will be leased to the United Railways & Electric. William A. House is Gen. Mgr., and D. B. Banks is Ch. Engr., Continental Trust Bldg., Baltimore. A special meeting of stockholders of the Baltimore & Annapolis Short Line Railroad is called for Aug. 6, to act on proposition to convert the motor power of this line from steam to electricity. John Wilson Brown is Pres.

WINSTON-SALEM, N. C.—Bids are asked by O. H. P. Cornell, Ch. Engr. Winston-Salem South Bound Ry., at Winston-Salem, until noon, Aug. 15, for the construction of about 10,000 cu. yds. of concrete bridge masonry, together with the necessary cofferdams and excavation. (Advertised Engineering News.)

DAYTONA, FLA.—We are officially informed that the Daytona-DeLand & St. Johns River R. R. Co. has been incorporated. The line is to be constructed immediately. The western terminus is the St. Johns River, and the eastern, at Seabreeeze on the Atlantic Ocean, passing through DeLand, Daytona and Daytona Beach. The passenger service will be run by gasoline motors and the freight by steam. The route, which has been surveyed, passes through a well-timbered section of the state. W. J. Morgan, of Bellaire, Ohio, is Pres., and D. D. Rogers, of Daytona, Fla., is Const. Engr.

NELSONVILLE, OHIO.—L. F. Carpenter, Pres. of the Nelsonville, Athens & Glouster Traction Co., Nelsonville, advises us that no contracts have been awarded yet for building its line from Nelsonville to Glouster, thence to Athens and back to Nelsonville, 40 miles. Right-of-way is 70% obtained. Capital will be secured soon. J. W. Andress, of New York, is Ch. Engr.

YOUNGSTOWN, OHIO.—The contract for the electrification of the Youngstown & Southern Railway, which at present is operated as a steam road, has been placed with J. G. WHITE & CO., 49 Exchange Pl., New York. The road was built from Youngstown to Columbiana several years ago by J. G. White & Co., and was originally designed as a third-rail electric line; but this plan was abandoned, and other parties took over the road and operated it as a steam road. Recently the company made amicable arrangements with the Youngstown & Ohio River Railway, which threatened to build a parallel line, and under this arrangement the Youngstown & Southern will extend its line to Leetonia, while the Youngstown & Ohio River will build from Leetonia to Salem, Lisbon and East Liverpool. The two companies have a traffic arrangement for operating cars through from Youngstown to East Liverpool. The Youngstown & Ohio River Company, which was financed by Will Christy, George Stanley, and others of Cleveland, placed contracts last week with the Westinghouse Electric & Mfg. Co. for the entire electrical equipment of the line. The main power station for the road will be located at West Point, between Lisbon and East Liverpool, and will be but a short distance from large coal mines, from which the house will receive its fuel supply. This house will supply the Youngstown & Southern as well as the Youngstown & Ohio River line, and one substation will be installed for the first-mentioned line at a point near North Lima. The CLEVELAND CONSTRUCTION CO., which has the contract for building the Youngstown & Ohio River, has placed a contract with the P. J. GUTHRIE CONSTRUCTION CO., of Columbus, for six miles of construction work, which will be done with steam shovels, as it involves a large amount of heavy work. Grading is being pushed at several points. A portion of the line will be placed in operation late this fall.

HILLSBORO, OHIO.—Philip Hughes, Pres. of the Hillsboro, Belfast & Peebles Traction Co., at Peebles, Ohio, writes us that capital has not been secured for building this company's line from Hillsboro to Aberdeen, about 50 miles in length. He says "we have a good proposition for some capitalist who wishes to invest in this kind of stock. There is no territory or locality to compare with this one." Right-of-way is secured for 25 miles. Surveys are made. Ben Collins, Cincinnati, Ohio, is Ch. Engr.

DETROIT, MICH.—F. W. Brooks, Asst. Gen. Mgr., of the Detroit United Ry., in reference to the proposed extension to Saginaw, writes: "This company has no plan for extending its line to Saginaw, information to the contrary notwithstanding. I should be obliged if you will note this fact, since a great many of our friends seem to have been misled. We understand that two or more sets of outside parties are planning to build between Flint and Saginaw, though we have no definite information as to their plans, nor am I able to tell you who they are."

INDIANAPOLIS, IND.—P. M. Dunn, of this city, Pres. of the Indiana Rapid Transit Co., announces that the bonds of the new company have been sold, and in a short time work on the line will be begun. This road will extend from Logansport through Deer Creek, Carroll, Sharon, Darwin, Burlington, Michigantown, Frankfort, Thorntown, Crawfordsville, Rockville, to Terre Haute. The road and bridges will be built for double-track, and 80-lb. rails will be laid, with a view of doing a heavy freight business.

CARTHAGE, ILL.—The Carthage & Western Illinois Electric Ry. Co. has been incorporated, with principal offices at Chicago. Capital stock, $2,000. Company will operate a line from Carthage, Hancock County, Ill., to points in counties of Fulton, Cass and Adams. Incorporators and first Board of Directors are W. M. R. Vose and F. P. Vose, Evanston, Ill.; C. C. Breuer, Ralph A. Griffen and George A. Griffen, Chicago.

CHARLESTON, ILL.—W. H. Schoot, of Chicago, and the directors of the Charleston-Paris Traction Co., are reported to have arranged for building a new interurban line. The local people are to furnish $200,000, and Mr. Schoot will provide the balance necessary to build and equip the road. The proposed line is to be 28 miles long, and will form a connecting link between Indianapolis and St. Louis.

GREENFIELD, IOWA.—Tyndale Palmer, 32 Broadway, New York, Vice-Pres. of the Union Terminal R. R. Co., of that city, is considering the project of building an electric interurban from Des Moines via Winterset and Greenfield to Council Bluffs. He has taken the matter up with some of the leading merchants and business men of this city, and assured them that if the towns along the proposed route, as well as the country districts, would assure reasonable assistance, the capitalists whom he represented would furnish the necessary capital. Mr. Palmer stated that the Union Terminal Co. would back the project. He would not ask for the voting of taxes, but did want the assurance that a franchise would be granted in each town or city through which the line would run, and would also ask for local donations and aid in the way of securing depot grounds and right-of-way. Mr. Palmer has visited Winterset, Carson, Council Bluffs and Des Moines, and has gone over the situation with interested parties.

LIBERTY, MO.—The City Council has passed unanimously an ordinance granting a 30-year franchise to the Kansas City, St. Joseph & Excelsior Springs Railway. With the exception of the entrance into Excelsior Springs, the right-of-way in Clay County is now secured. The line from Kansas City to Excelsior Springs will run north on the St. Joseph line six miles, then branch off to the Springs via Liberty, the distance between the two points being 30 miles.

SAN FRANCISCO, CAL.—L. J. Perry, Vice-Pres. and Gen. Mgr. of the Napa, Cal., Vallejo & Napa Valley Ry. Co., advises us that contracts are to be let San Francisco, 90 days' time for building this within 30 to line. It will run from this city to Vallejo by steamer and Vallejo to Calistoga by standard electric. This project was noted in Engineering News on July 19. Steamer line is now in operation, connecting at Vallejo with the Vallejo, Benicia & Napa Valley Ry., which is standard electric and has been operated for a year. Surveys have been run and right-of-way over private ground secured. Capital is now ready for construction. C. H. Wallace is Ch. Engr., at St. Helena, Cal. W. F. Botsford is Pres., at Los Angeles, Cal.

LOS ANGELES, CAL.—A. J. Lelande, City Clk., advises us that franchise was sold on July 23d to M. Welsh, of Los Angeles, for a street railway line from Broadway and Seventh St., in a southeasterly direction, to the city limits.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

FRANKLIN FALLS, N. H.—WILLIAM M. AMES, of Berwick, Me., has been awarded the contract for the construction of the new dam and power-house for the Franklin Light & Power Co., at the Giles mills.

NEW YORK, N. Y.—The following bids were received July 26 by Louis F. Haffen, Pres. Boro. of the Bronx, for steam power, heating and ventilating for the Bronx Borough Court-House: Blake & Williams, 221 West 20th St., $72,590; Frank Dobson, 319 East 53d St., $78,623; James Cuman Mfg. Co., 512 West 36th St., $75,000; Walker & Chambers, 50 West 20th St., $66,870.

The bids received at the same time for constructing generating plant and electrical work for the Bronx Borough Court-House were: The Blackall & Baldwin Co., 39 Courtlandt St., $29,990; Reis & O'Donovan, 1123 Broadway, $26,780; Western Electric Co., West and Bethune Sts., $24,604.

POINTWOOD (L. I.), N. Y.—Bids are asked until 10 a. m., Aug. 7, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for constructing operating-house, power-house, oil-house, privy, etc., and erecting masts at the wireless telegraph station to be located at Fire Island Beach, Lighthouse Reservation, Long Island, N. Y.

ELIZABETH, PA.—Bids are asked until noon, Aug. 18, by Major William L. Sibert, U. S. Engr., for building a power-house at new Lock No. 3, Monongahela River, ¾-mile above Elizabeth, Pa.

MONESSEN, PA.—Hotel May, Monessen, will install a private electric lighting system of 800 incandescent 16-c. p. lights capacity. The proprietor will advertise for bids in about two months.

PHILADELPHIA, PA.—The JOHN W. ALLISON CO., Land Title Bldg., has contract for reinforced concrete work on the power-house for the Philadelphia Rapid Transit Co., at 920 North Delaware Ave. The cost will be $40,000.

PITTSBURG, PA.—Contracts have been let to the WESTINGHOUSE ELECTRIC & MFG. CO. by the Pittsburg Railways Co. for three 7,500-HP. and one 5,000-HP. turbo-generators, to be installed in its power plant on Brunots Island. The new generators will furnish electricity for the power and lighting circuits, and the street railway lines.

LYNCHBURG, VA.—Lamar Linden is preparing plans for a municipal electric light plant; estimated cost, $50,000. H. L. Shaner is City Engr.

BENWOOD, W. VA.—This town is considering the installation of electric light plant to cost $10,000.

ELON COLLEGE, N. C.—B. McKENZIE, Greensboro, N. C., has contract to erect building to be equipped as central heating, light and water plants for Elon College, E. L. Moffitt, Pres. Contract for boiler has been let to the GREENSBORO BOILER & MACHINE CO.; electric work to W. DRUMMOND MORROW, and plumbing to the J. ALBRIGHT PLUMBING CO., all of Greensboro, N. C.

CHARLESTON, S. C.—The following bids were received July 21 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for generating sets and accessories for the Navy Yard, Charleston: General Electric Co., Schenectady, N. Y., Item 1, $72,870. McIntosh Seymour & Co., 26 Cortlandt St., New York, N. Y., Item 2, $89,800; Item 6, $65,800. Westinghouse Electric & Mfg. Co., Continental Bldg., Baltimore, Md., Item 1, $73,997; Item 2, $88,495; Item 5, $57,995; Item 6, $66,675. Allis-Chalmers Co., Milwaukee, Wis., Item 2, $106,525; Item 6, $83,512. Walker Electric Co. 2318 Noble St., Philadelphia, Pa., $9,350 for switchboard; $150 for tablet board.

The following bids were received July 21 by the Bureau of Yards and Docks, Navy Department, Washington, D. C., for machinery for Central Power Station, Navy Yard, Charleston: E. Rutzler Co., 127-129 White St., New York, N. Y., Item 1, $112,514; Item 2, $108,985; Item 5, $103,159; Item 6, $95,000; Item 7 $85,644; Item 8, $100.973; Item 9, $91,470; Item 10, $83,458. Evans Almirall & Co., 281 Water St., New York, N. Y., Item 1, $114,400; Item 2, $110800; Item 3 $113,200; Item 4, $110,200; Item 5, $107,300; Item 6, $99,600; Item 7, $92,500; Item 8, $101,350; Item 9, $96,000; Item 10, $86,500. The Scofield Co., Penna. Building, Philadelphia, Pa., Item 1, $135,524, $141,171; Item 2, $5,900 (deduct), $7,975 (deduct); Item 3, $1,275 (deduct); Item 4, $500 (deduct); Item 5, $12,812 (deduct), $14,812 (deduct); Item 6, $15,306 (deduct); Item 7, $15,306 (deduct); Item 8, $11,479 (deduct), $12,812; Item 9, $15,306. Ricketts Engineering Co., 621 13th St., N. W., Washington, D. C., Item 1, $104,726; Item 2, $97,999; Item 3, $4,905 (deduct), $1,406 (deduct), $164 (deduct), $4,471 (deduct), $400 (deduct), $1,130 (deduct); Item 4, $164 (deduct), $4,471 (deduct), $400 (deduct), $1,130 (deduct), $3,058 (deduct), $1,406 (deduct); Item 5, $92,500, $5,500 (deduct), $3,907 (deduct), $640 (deduct), $500 (deduct), $800 (deduct); Item 6, $18,900 (deduct); Item 7, $18,900; Item 8, $87,421, $2,529 (deduct), $2,114 (deduct), $640 (deduct), $500 (deduct), $800 (deduct); Item 10, $18,900. For coal-handling apparatus only: Jeffrey Mfg. Co., Columbus, Ohio, $19,244; Link-Belt Engineering Co., Nicetown, Philadelphia, Pa., $13,915. For stokers only: Underfeed Stoker Co. of U. S., Chicago, Ill., $6,357; Exeter Machine Works, 26 Cortlandt St., New York, N. Y., $15,900.

CHARLESTON, S. C.—The Bureau of Yards and Docks, Navy Dept., Washington, D. C., has awarded contract for furnishing generator sets and accessories at the Navy Yard, Charleston, S. C., to the GENERAL ELECTRIC CO., Schenectady, N. Y., $72,870 being the amount of their bid.

The Bureau of Yards and Docks, Navy Dept., Washington, has awarded contract for furnishing the machinery for the Central Power Plant at the Charleston Navy Yard to the RICKETTS ENGINEERING CO., Washington, D. C., at their bid of $104,726.

WINTER GARDEN, FLA.—It is reported that W. Percy Reams will install electric light plant at this town.

MONTGOMERY, ALA.—Citizens' Light, Heat & Power Co. has completed organization as the Citizens' Light & Power Co. with $100,000 capital stock. It is stated that the plant will be extensively improved and the service extended. Alexander Rice is Pres.

MORGAN CITY, LA.—B. M. & H. M. Young have informed us that they will install a 200-HP. oil engine and an 85-KW. Westinghouse 220-volt dynamo. The power-house will be built of concrete blocks. The plant will furnish electricity for both power and lighting.

LOUISVILLE, KY.—Louisville Lighting Co. has secured permit for erection of substation to be two and three stories, 27½ × 105 ft.; brick and concrete, and cost $14,000. A. M. Worthington is Mgr.

PADUCAH, KY.—The contract presented by the GENERAL ELECTRIC CO., 44 Broad St., New York, in which it proposed to equip the city lighting plant for $11,000, has been ratified by both boards of the General Council.

LA FAYETTE, IND.—The contract for the complete rebuilding of the plant of the Lafayette Gas Co. on North Fourth St. has been awarded to the KERR-MURRAY MFG. CO., of Fort Wayne.

COLUMBUS, IND.—The Columbus Ry. & Light Co. is preparing to build and install a new power plant. M. S. Hopkins is Gen. Supt.

INDIANAPOLIS, IND.—The Board of Works has awarded contract to the SUN VAPOR ST. LIGHT CO. for furnishing gas and naphtha lights in Indianapolis next year.

CHICAGO, ILL.—See Streets and Roads.

MERRILL, WIS.—The contract to build a dam and power-house for the Grandfather Falls Power & Logging Co., has been let to JOHN O'DAY. The dam will be 600 ft. long and about 40 ft. high, and will be built of stone and concrete.

MARSHALLTOWN, IOWA.—The contract for the erection of a $50,000 plant for the Peterson Heat, Light & Power Company has been awarded to the Iowa Manufacturing Company, Oskaloosa, Iowa. Mentioned on June 10.

DEADWOOD, S. DAK.—Bids are asked until 3 p. m., Aug. 22, by James Knox Taylor, Superv. Arch., for low pressure steam heating apparatus, complete, for the U. S. Post Office and Custom House at Deadwood.

LANGLEY, ARK.—The Southern Power & Development Co. proposes to construct a dam across Little Missouri River, near Langley, for light and power purposes. The dam will develop about 500 HP. J. D. Crockett, of Denning, is Secy.; D. A. Allen, Altus, is Pres.

BROWNSVILLE, TEX.—A system of water-works and an electric light and power plant will be established here at a cost of $100,000. John Bannon, Secy. of the Business Men's Club, is interested.

SUNNYSIDE, WASH.—Bids are asked until 8 p. m., Aug. 13, by H. W. Turner, Town Clk., for constructing a water-works and electric lighting system for the Town of Sunnyside.

PALO ALTO, CAL.—Contracts have been awarded by the Board of Trustees to the STANDARD ELECTRIC CO., of San Francisco, for generators, and to the WESTINGHOUSE ELECTRIC & MFG. CO., for the motors for the municipal electric lighting plant.

CARSON CITY, NEV.—The Truckee River General Electric Co. is preparing to build a generating plant on the upper Carson River to supply Carson City and the Douglas County farmers with power and light.

ORILLIA, ONT.—The Town Council of Orillia, Ont., has awarded the contract for construction of the new cement dam at he Ragged Rapids to QUINLAN & ROBERTSON, Montreal. The cost of the dam will be about $52,000.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

FALL RIVER, MASS.—We are officially advised that plans and specifications for the proposed bridge over Taunton Great River, between Fall River and Somerset, have not yet been completed. Bids will be asked for later. Frederick N. Wales is Clk of Joint Bd.

ALBANY, N. Y.—We are officially informed that bids were received July 25, by N. V. V. Franchot, Supt. Public Works, for, Contract No. 34, for furnishing and erecting steel highway bridge superstructure over the Erie Canal, at Saratoga Ave., Waterford, as follows: M. FITZGERALD, Hoosick Falls, N. Y., $20,612; United Construction Co., 467 Broadway, Albany, $22,587; Groton Bridge Co., Groton, N. Y., $22,252; Eastern Steel Co., 71 Broadway, New York, $29,653. For Contract No. 7. Erie Canal, sections 1, 5, 7 and 9. Champlain Canal, section 2. For furnishing and erecting in place steel highway bridge superstructures as follows: On Contract No. 2, Erie Canal, section 1, bridge at Fourth St., Waterford. On Contract No. 3, Champlain Canal, section 2, bridge at Fort Miller, Station 151 + 84; bridge at Ridge Road, Station 173 + 18; Payn's Bridge, Station 213 + 10. On Contract No. 4, Erie Canal, section 5, bridge at Station 6773; bridge at Station 6886 + 43.5; bridge at Sylvan Beach, Station 6939 + 40. On Contract No. 5, Erie Canal, section 7, bridge at Mosquito Point, Station 5077 + 76. On Contract No. 6, Erie Canal, section 9, Buffalo Road Bridge, Station 2576 + 14; Lyell Road Bridge, Station 2631 + 38; Lee Road Bridge, Station 2661 + 64; Spier's Road Bridge, Station 2729 + 10. The one bid submitted, that of the GROTON BRIDGE CO., Groton, N. Y., at $97,635, was accepted. Itemized bids will be given under Contract Prices in Engineering News next week.

CAMBRIDGE SPRINGS, PA.—The Commissioners of Crawford County have awarded contract for abutments of the new county bridge at Cambridge Springs to ALLEN & MEALS, of Oil City. The price was $5,485.

PHILADELPHIA, PA.—Plans for the construction of five new bridges, authorized by ordinances of Councils, were approved yesterday by the Board of Civil Surveyors, and the work will begin without delay. The cost of the five bridges will be in excess of $125,000. They will be erected on the lines of Gorgas St., Phil-Ellena St. and Mount Pleasant Ave., over the tracks of the Philadelphia & Reading Ry., and on the line of Cresson St. over Midvale Ave., and on 58th St. over the tracks of the Pennsylvania R. R.

WINSTON-SALEM, N. C.—Bids are asked until noon, Aug. 15, by O. H. P. Cornell, Ch. Engr. of the Winston-Salem South Bound Ry., Winston-Salem, for construction of about 10,000 cu. yds. of concrete bridge masonry, together with the necessary coffer-dam and excavation. (Advertised Engineering News.)

VICKSBURG, MISS.—Bids are asked until noon, Aug. 6, by J. D. Laughlin, Clk. of the Chancery Court, for building bridge on Glace Place Road, No. 17.

CLEVELAND, OHIO.—The Cleveland Short Line has awarded contracts to the AMERICAN BRIDGE CO., 42 Broadway, New York, for building a steel viaduct over Cuyahoga Valley, at $500,000, for the steel work only. The masonry will cost an additional $300,000.

CLEVELAND, OHIO.—Bids are asked until noon, Aug. 16, by the Board of Public Service, A. R. Callow, Secy., for constructing concrete-steel arch viaduct on Independence Road, Washington Park. (Advertised, Engineering News.)

TOLEDO, OHIO.—The contract for a concrete arch at Detroit Ave., Washington Township, has been awarded to H. P. STREICHER, of Toledo, at $20,425. L. B. Bailey is Chn. Bd County Comrs.

NEW PHILADELPHIA, OHIO.—Bids are asked until Aug. 30, by the County Commissioners, for constructing two steel bridges, one to be 110 ft. and the other 70 ft. long. A. V. Donohey is County Audr.

ST. CLAIRSVILLE, OHIO.—Bids are asked until 1 p. m., Aug. 20, by A. W. Beatty, Audr. Belmont County, for constructing and repairing 12 bridges. Separate bids must be submitted for work on each bridge.

ORWELL, OHIO.—Bids are asked until 1 p. m., Aug. 6, by the Auditor of Ashtabula County, Jefferson, for constructing reinforced concrete bridge over Grand River, in Orwell Township.

INDEPENDENCE, OHIO.—Bids are asked until noon, Aug. 7, by C. C. Chamberlain, Audr. Washington County, for substructure and superstructure of proposed bridge, to be built near the mouth of Rea's Run.

NEWCASTLE, IND.—Bids are asked by the Board of Commissioners of Henry County, at office of John M. Bundy, County Audr., until 1 p. m., Aug. 7, for constructing seven concrete and steel span bridges and repairing two bridges.

KENTLAND, IND.—Bids are asked until Aug. 6, by the County Commissioners, for constructing three bridges, each having a 40-ft. span. Alonzo E. Purkey is County Auditor.

EDINBURG, IND.—WESLEY VANARSDALL has secured a contract to build five concrete bridges for the Indianapolis, Columbus & Southern Traction Co., between Columbus and Seymour. George A. Saylor is Supt.

HUNTINGTON, IND.—Bids are asked by the Commissioners of Huntington County until Aug. 8, for construction of either a steel or concrete bridge across the Wabash River south of Huntington.

SHELBYVILLE, IND.—The Commissioners of Shelby County have awarded contract for the Michigan Road bridge to AVERY, HAMMOND & HOWARD, and for the Brandywine Junction bridge to CLAUDE HENRY.

GENESEO, ILL.—Bids are asked until 3 p. m., Aug. 8, by the Town Clerk of Geneseo Township, for four pin connected highway bridges on concrete abutments. One bridge is to have a 156-ft. span, two, 140-ft. spans, and one, 140-ft. span, with 50-ft. span approach. A. N. Johnson is State Highway Engr.

NEW ROCKFORD, N. DAK.—Bids are asked until Aug. 13, by the County Commissioners, for furnishing material and constructing two bridges, one across James River, and the other across Cheyenne River. W. C. Schwoebel is County Audr.

HUNTLEY, MONT.—Bids are asked by the County Commissioners, at Billings, until Aug. 25, for construction of a bridge, about 580 ft. long, across Yellowstone River, near Huntley.

MISSOULA, MONT.—The contract for constructing bridge across the Missoula River, west of the city, has been let by the County Commissioners to O. E. PEPPARD, Missoula, at $9,895.

SAVANNAH, MO.—Bids are asked until Aug. 7, for constructing Steel Bridge No. 22. J. E. Schnitzius is Road and Bridge Comr. of Andrew County.

HAZEN, NEV.—See Irrigation Ditches, under Miscellaneous Contracts.

OTTAWA, ONT.—Bids, including designs and stress sheets, are asked until Aug. 14, by the Commissioners of the Transcontinental Ry., P. E. Ryan, Secy., at Ottawa, for constructing the steel superstructures and floor system, with ties and guard rails complete, for the following bridges, the said superstructure to be ready for shipment on or before the date set opposite the respective bridge sites: River aux Pommese, Sept. 1, 1906; River Jacques Cartier, Nov. 1, 1906; Crossing C. P. R., Nov. 1, 1906; River Portsmeuff, Dec. 1, 1906; River St. Anne, Jan. 1, 1907; River Noir, Feb. 1, 1907; River Charest, Mar. 1, 1907, and River Bastiscan, Apr. 1, 1907. H. D. Lumsden, Ottawa, is Ch. Engr.

BATTLEFORD, SASK.—Bids are asked until 4.30 p. m., Aug. 13, by F. J. Robinson, Deputy Comr. Pub. Wks., Regina, Sask., for constructing eight concrete piers and two abutments for a traffic bridge over the Saskatchewan River, at Battleford. About 5,000 cu. yds. concrete will be required. Plans are on file at office of Engineering News, New York. (Advertised Engineering News.)

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—C. W. Buckham, Arch., 307 Fifth Ave., has prepared plans for a 13-story apartment building at 471-479 Park Ave., for the Densmore & Compton Bldg. Co., 307 Fifth Ave. Estimated cost, $525,000. E. E. POWELL, 287 Park Ave., has contract. Sub-contract will be let. Building will be 120 × 86 ft., structural steel and iron, brick, limestone and marble.

Geo. F. Pelham, Arch., 503 Fifth Ave., has prepared plans for two flat buildings at 97th St. and Madison Ave., for Chas. I. Weinstein, 81 East 106th St. Buildings will be about 50 × 90 ft. Estimated cost, $110,000.

W. D. Johnson, Arch., Southern Boulevard and Westchester Ave., has prepared plans for a flat building at Simpson St. and Westchester Ave., for the American Real Estate Co. The building will be six stories high and about 75 × 80 ft. Estimated cost, $115,000.

Knight & Collins, Archs., 24 East 23d St., have prepared plans for a loft building at 114 and 116 East 13th St., for the American Felt Co., 110 East 13th St. The building will be eleven stories high and about 56 × 93 ft. Estimated cost, $210,000.

Welch, Smith & Provot, Archs., 11 East 42d St., have prepared plans for two residences, at 1014 and 1015 Fifth Ave., for William Hall's Sons, 39 East 42d St. The buildings are to be three stories high and 25 × 75 ft. Estimated cost, $170,000.

The New York Athletic Club will build a club-house at Travers Island, at a cost of $125,000, to replace the one that burned.

BROOKLYN, N. Y.—H. Vollweiler, Arch., 696 Bushwick Ave., has prepared plans for twelve 3-story flat buildings, about 18 × 60 ft., on 73d St., near Ninth Ave., for C. & B. Goldstein, 551 57th St. Estimated cost, $120,000.

F. S. Lowe, Arch., 186 Remsen St., has prepared plans for three flat buildings at St. Marks and Nostrand Aves., for Kingston Realty Co., 44 Court St. The buildings are to be five stories high and about 34 × 112 ft. Estimated cost, $240,000.

ALBANY, N. Y.—Bids are asked until 2 p. m., Aug. 29, by Daniel W. Cahill, Supt. of Pub. Bldgs., the Capitol, Albany, for alterations to plumbing at the State Capitol. (Advertised, Engineering News.)

ALBANY, N. Y.—The Trustees of Public Buildings opened bids on July 30 for removing top of the main tower of the capitol building, and replacing the first story column of the Assembly staircase. Engineer's estimate, $98,000. The lowest bid received was submitted by the Hudson Valley Construction Co., Troy, N. Y., at $59,400. Gov. Frank W. Higgins is Chn. of Bd.; Frank E. Perley is Secy.; Geo. L. Heins is State Arch.

POUGHKEEPSIE, N. Y.—The contract for building the Hudson River Hospital for the Insane at Poughkeepsie was awarded to THE PETER KEELER BUILDING CO., 464 Orange St., Albany, N. Y., at $313,000.

TRENTON, N. J.—James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., is reported to be preparing plans for improvements to the federal building at Trenton. An appropriation of $120,000 has been made.

PHILADELPHIA, PA.—J. H. Cook, Arch., City Hall, has plans for a 3-story school building, to be erected at Randolph and Venango Sts., for the city. Stone, brick and steel, fireproof. Estimated cost, $175,000.

William Steele & Sons, 16th and Arch Sts., want sub-bids for a 10-story concrete warehouse at Delaware Ave. and Water St., for C. J. Webb & Co. Estimated cost, $500,000.

Ballinger & Perrot, Archs., 1200 Chestnut St., have plans ready for bids for a 5-story addition to warehouse, at Eleventh and Nevada Sts., for R. D. Carey.

Henry L. Reinhold, Jr., Arch., 1004 Chestnut St., has plans ready for estimates for a reinforced concrete warehouse, to be located in the center of the city. It will be four stories high, fireproof throughout.

The contract for building a 4-story theater at Broad and Cherry Sts. for Thomas Wanamaker has been let to the THOMPSON-STARRET CO., Pennsylvania Bldg., this city. Cost, about $250,000.

PHILADELPHIA, PA.—Plans have been submitted for a building which will be erected by the Y. M. C. A. at Broad and Arch Sts. Estimated cost, $500,000.

Marshall & Fox, Archs., 164 Dearborn St., Chicago, let the general contract for the Forrest Theater, to be erected at Broad and Walnut Sts., Philadelphia, for Nixon & Zimmerman, to CRAMP & CO., Philadelphia, Pa. It is to be 115 × 168 ft., built of brick and concrete. Approximate cost, $300,000.

WOODVILLE, PA.—The contract for the erection of an addition to the Hospital for the Insane has been awarded to VESPER, STEWART & RUSSELL CO., of Washington, Pa. It is to cost $125,000.

JOHNSTOWN, PA.—W. G. Eckles, Arch., New Castle, Pa., has awarded the general contract to GEORGE KRUEGER, Ruth Block, for three 3-story brick school buildings for the board of education. Estimated cost, $122,000.

MILLVALE, PA.—Bids are asked by H. H. Dixon, Board Clerk, until 3 p. m., Aug. 7, for the construction of a municipal building. Plans, etc., at office of Theodore Schaub, Sterritt Bldg., Allegheny, Pa. Edward Vero, Burgess.

DELAWARE CITY, DEL.—Bids are asked until 11 a. m., Aug. 24, by Capt. Louis F. Garrard, Jr., Q. M., for installing window and door screens in barracks and storehouse at Fort Du Pont, Delaware City, Del. (Advertised, Engineering News.)

BALTIMORE, MD.—M. G. Latimer, 809 Calvert Building, St. Paul and Fayette Sts., has awarded contract to RICHMOND H. FORD & CO., Equitable Building, Fayette and Calvert Sts., for the construction of 40 frame dwellings at Mt. Washington, to cost about $250,000; George Clothier, Jr., Arch., Lobe Building, 15 South Gay St.

The Fuller Memorial Baptist Church, B. P. Robertson, pastor, 1116 North Fulton Ave., will erect its new church building at Fulton Ave. and Winchester Sts., by subcontracts. Morris & Clifford, Archs., Equitable Building, Calvert and Fayette Sts., will superintend the construction.

BALTIMORE, MD.—JOHN WATERS, 23 East Centre St., has been awarded the contract for the erection of an addition to the Female Dormitories at the Maryland Penitentiary. The addition is to be one story high, of stone and steel, and of fireproof construction. Estimated cost, $200,000.

WASHINGTON, D. C.—E. C. Brainerd, 1410 G St., N. W., as agent for Charles E. Foster, 908 G St., N. W., has commissioned B. Stanley Simmons, Arch., 931 F St., N. W., to prepare plans and specifications for an 8-story fireproof office building at 1331 and 1333 G St., N. W.

The contract for a residence at 17th St. and Massachusetts Ave., N. W., for Clarence Moore, has been let to the GEORGE A. FULLER CO., Munsey Bldg. Estimated cost, $150,000.

NORFOLK, VA.—Louis E. Jallade, 178 Fifth Ave., New York, N. Y., has been selected to prepare plans for a $300,000 naval Y. M. C. A. building to be erected in this city.

WHEELING, W. VA.—C. M. Bartberger, Arch., Westinghouse Bldg., Pittsburg, Pa., has made plans for a Scottish Rite cathedral at Wheeling.

SALISBURY, N. C.—Bids are asked until Aug. 20 for the construction of a jail building. A. L. Smoot, Clk. Cowan County Comrs.

ATLANTA, GA.—James Knox Taylor, Supervis. Arch., Washington, D. C., has had plans started for the court-house and post-office. The estimated cost is $1,000,000.

NEW ORLEANS, LA.—Plans and specifications have been submitted to the court-house commission by F. W. Brown, A. T. E. Brown and P. T. Marye for proposed $200,000 court-house.

NATCHITOCHES, LA.—Bids are asked until Aug. 15 for the erection and completion of a 2-story and basement wing to the main building of the State Normal School at Natchitoches, La. Favrot & Livaudais, Ltd., Archs., Abraham Bldg., New Orleans, La. Address B. C. Caldwell, Natchitoches, La.

MEMPHIS, TENN.—The contract for a $200,000 apartment house has been let to M. T. LEWMAN & CO., 515 Fourth St., Louisville, Ky. L. M. Weathers, Cotton Exchange Bldg., Arch.

KNOXVILLE, TENN.—Bids are asked for building the Luttrell St. M. E. Church. Plans and specifications can be had by addressing A. J. Cloyd, Chn. of Bldg. Com., 400 Broadway.

PADUCAH, KY.—The First National Bank will erect a 10-story steel office building.

GREENVILLE, KY.—Bids for erecting a new court-house for Muhlenberg County, at Greenville, Ky., will be received until Aug. 10. Plans and specifications are on file at the office of Kenneth McDonald and W. J. Dodd, 609 Equitable Bldg., Louisville, Ky.

COLUMBUS, OHIO.—The contract for the erection of the new Majestic Theater has been awarded to JOHN G. SCHMIDT and THOMAS SKELDING, 616 Jackson St., Toledo, Ohio. A. W. Johnson, 708 Spitzer Bldg., Toledo, Ohio, is the Arch.

CINCINNATI, OHIO.—Ezekiel & Bernheim are erecting a warehouse at 331 Main St. Approximate cost is $300,000.

INDIANAPOLIS, IND.—Rubush & Hunter, Archs., Fitzgerald Bldg., have awarded the general contract for Deaf and Dumb Institution to Heinzmann Bros., Noblesville, Ind. Cost, $500,000.

Bids are asked by the Board of Commissioners, Room 81, State House, until noon, Aug. 21, for the construction of various buildings, pipe-tunnels, heating and power equipment, exclusive of the plumbing, electric wiring and sewer work, for the Southeastern Hospital for the Insane. Foltz & Parker, Archs., Union Trust Bldg., Indianapolis. Separate proposals for each building or group of buildings must be submitted as per list on the proposal blank, also a single proposition on the entire group of buildings. Separate bids will be taken for plumbing, electric wiring and sewer work. The commission's intention is to award contracts only on such combinations of buildings and proposals as, in its judgment, will best use the appropriation now on hand.

TRAVERSE CITY, MICH.—Jans C. Peterson, Arch., has prepared plans for a 3-story C. S. P. S. lodge building, theater and gymnasium, 60 × 100 ft. Bids will be received by Joseph Sieger, Secy., until Aug. 20.

SAGINAW, MICH.—Bids are asked for the new Herig School building by the board of education until Aug. 9. Ray J. Merriam, Arch.

SPRINGFIELD, ILL.—W. Carbys Zimmerman, State Arch., 17 Van Buren St., has made plans for extensive improvements to be made in the capitol building at Springfield, Ill. The plumbing contract has been let to the PATTERSON-STEWART CO., Springfield, Ill.; the heating plant to JOHN O'NEIL & SONS, Peoria, Ill., and roofing to the SIKES ROOFING CO., Chicago. The appropriation for the improvements was $121,800, but the cost will not exceed $85,000.

The supreme court building commission has let entire contract to VALENTINE, JOBST & SONS, Peoria, Ill., at $148,000, for the erection of the supreme court building. Jas. A. Rose, Secy. of State; W. Carbys Zimmerman, State Arch., 1101 Steinway Hall, Chicago.

CHICAGO, ILL.—William E. Walker, Arch., Orchestra Bldg., 168 Michigan Ave., has let the general contract to MORTIMER & TAPPER, 723 Postal Telegraph Bldg., 145 Van Buren St., for a mercantile building to be erected at 1349-1353 Wabash Ave., for the Merchants' Furniture Exchange, represented by J. C. Hill. It is to be an 8-story, 71 × 171 ft. building, of reinforced concrete construction. Estimated cost, $150,000.

FLORA, ILL.—Bids are asked by the Board of Education of school district No. 33 for the erection of a school building. Plans may be had at the office of A. E. Shinn.

MADISON, WIS.—George B. Post & Sons, Archs., 33 East 17th St., New York, have been commissioned to prepare plans for new state capitol building, their plans being unanimously selected in a competition. Lew F. Porter, Arch., Ellsworth Block, Madison, has been elected Secretary of the State Capitol Commission.

ST. LOUIS, MO.—THE SELDEN-BRECK CONSTRUCTION CO., Fullerton Bldg., St. Louis, has been awarded the contract for the buildings for the Wagner Electric Manufacturing Co., at Plymouth Ave. and Wabash track. Brenneke & Fay, Engrs., Fullerton Bldg., St. Louis. Estimated cost, $200,000.

Bids are asked until Aug. 10 for the erection of a police station by the Board of Police Commissioners. Building is to be 52 × 156 ft., fireproof, and the estimated cost is $125,000. James A. Smith is Bldg. Comr.

The Second Baptist church will erect a new church at a cost of $200,000. Mauran, Russell & Garden, Archs., 1620 Chemical Bldg.

Mauran, Russell & Garden, Archs., are preparing plans for a building to be erected by the Racquet Club. The building is to be five stories high. Estimated cost is $125,000.

GALLATIN, MO.—Bids are asked until Aug. 28 by the county clerk of Davies County for a court-house. Plans were prepared by P. H. Weathers & Co., Archs., 2930 Main St., Kansas City, Mo.

LITTLE ROCK, ARK.—The contract for the new city hall, which is to cost about $200,000, has been awarded to STANTON & COLLAMORE, of this city. C. L. Thompson, Arch., Arkansas Bldg., prepared the plans.

HOT SPRINGS, ARK.—Architect has not been selected to prepare plans for high-school building to be erected at a cost of $100,000; fireproof construction. Dr. W. H. Connel, Pres. School Bd.

FORT SMITH, ARK.—B. F. Atkinson and B. Williams will erect a 4-story brick and stone building at a cost of $60,000. W. H. Blakley, Arch.

HOUSTON, TEX.—John S. Stewart will erect a modern 8-story office building, at a cost of from $85,000 to $110,000.

SAN ANTONIO, TEX.—Harvey L. Page, Arch., Moore Bldg., is preparing plans for an addition reported to be erected to the Hot Wells Hotel at a cost of $250,000.

SEATTLE, WASH.—The contract for the construction of the new municipal building was awarded to JAMES PARKE. Contract for the structural steel work was awarded to the AMERICAN BRIDGE CO. Estimated cost, $168,474.

SAN FRANCISCO, CAL.—Abe Harshall will erect a 7-story brick building on Sutter St., between Mason and Powell Sts., at an estimated cost of $100,000.

Jean McGregor Boyd, trustee under the will of Alexander Boyd, deceased, will erect an 8-story reinforced concrete building at California and Drumm Sts. Its estimated cost is $135,000.

LOS ANGELES, CAL.—The Los Angeles Warehouse Co. is going to erect a warehouse on Commercial St.

HAMILTON, ONT.—The contract for building an armory has been let to GEO F. WEBB, of Hamilton, Ont. The armory is to be of brick and stone, and fireproof construction. Estimated cost, $220,000.

NORTH BAY, ONT.—The contract for building three public buildings has been awarded to McGILLVERY & YABELLE, of Ottawa. The buildings are to be three stories high, of fireproof construction. Estimated cost, $100,000.

TORONTO, ONT.—Gus Hill and Weber & Fields, theatrical managers, of New York, will erect a 2-story theater in this city. The building will be 100 × 90 ft., of stone and brick, fireproof construction. Estimated cost of building, $90,000, and of equipment, $10,000.

WINNIPEG, MAN.—Bids are to be called for at once by Pearson & Darling, Archs., Winnipeg, for a 3-story brick and stone club-house and office building, fireproof, 100 × 90 ft., for the Commercial Travelers' Association of Manitoba. Estimated cost is $100,000.

Contract for police station has been awarded to SHARPE & MAY. Cost, $100,000. Building will be of fireproof construction, brick and stone, 100 × 100 ft., three stories high. Hooper & Walker, Winnipeg, are the Archs.

Senecal & Smith are Archs. for the proposed hospital addition. There will be two 3-story brick buildings, of fireproof construction. Estimated cost, $145,000.

Contract for erection of office building at Main St. and Portage Ave., for Osler, Hammond & Nanton, has been let to WILLIAM GRACE CO., Chicago. Cost, about $150,000.

Contract for erection of building for Northwestern Commercial Travelers' Association has been awarded to D. D. WOOD, at $115,000.

BANFF, ALTA.—Bids will be received about Oct. 1 by the Canadian Pacific Ry. Co. for a wing to be built to the company's hotel here. The addition will contain 300 rooms. It will be built of brick and stone and will be three stories high. Fittings, boilers, builders' supplies, etc., will be required. Estimated cost of building is $300,000; equipment, $100,000.

QUEBEC, QUE.—The Dominion Government will erect an immigration building at Quebec, Que., at a cost of about $200,000, it is reported.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

NEWPORT, R. I.—Bids are asked until 10 a. m., Aug. 28, by the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., for driving an artesian well 1,000 ft. deep at the naval training station, Newport. Schedule 77.

NEW YORK, N. Y.—The following bids were received July 25, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for erecting, complete, (a) two pumping engines with a daily capacity of 15,000,000 gallons each; (b) two pumping engines with a daily capacity of 23,000,000 gallons each, at the Ridgewood North Side Pumping Station: William Todd Co., Youngstown, Ohio, (a) $107,000, (b) $110,000; Holly Construction Co., 5 Nassau St., New York, (a) $98,769, (b) $105,370; Camden Iron Works, Camden, N. J., (b) $112,000; Davis & Farnham, (a) $85,000, (b) $85,000; Allis-Chalmers Co., Milwaukee, Wis., (a) $104,000, (b) $112,200; Marine Engine & Machine Co., 126 Liberty St., New York, (a) $85,000, (b) $89,000.

Bids are asked until Aug. 15, by William B. Ellison, Comr. Water Supply, Gas and Electricity, for the following work in the Borough of Brooklyn: Furnishing, constructing and erecting an engine house for high pressure fire service at Willoughby and St. Edwards Sts.; an engine house for high pressure fire service at Furman and Joralemon Sts.; furnishing, delivering and laying water mains and appurtenances in Utica, Church and Remsen Aves.

COHOES, N. Y.—The contract for construction of a gravity system of water-works, at Cohoes, has been awarded to ELLERY COLBY & CO., of Oswego, at $13,000.

WHITE PLAINS, N. Y.—Bids are asked until 7.30 p. m., Aug. 23, by the Board of Water Commissioners, Lewis C. Platt, Pres., for construction of reservoir and dam, gate house and spillway, grading and improving road, etc., at White Plains. (Advertised Engineering News.)

ALBANY, N. Y.—The Board of Contract and Supply on July 12 awarded contracts for improvements at the filtration plant, as follows: Water tube boiler, the STERLING CONSOLIDATED BOILER CO., at $17,516, and a fuel economizer, to the B. F. STURTEVANT CO., for $5,200.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Aug. 21, by the Department of Public Works, Francis G. Ward, Comr., for furnishing the material and constructing a valve system, composed of 48-in. and 60-in. pipe, with nine steel air chambers, 51 valves, 48-in. each, and nine valves 24-in each, hydraulically or electrically operated.

Bids are asked until 11 a. m., Aug. 22, for constructing an intake pier, inlet shaft, and filtration shaft in Lake Erie, a shaft near the foot of Porter Ave., and another at the Front Ave. pumping station, a tunnel about two miles long connecting all these shafts, canals and pump well and engine and stack for the new pumping station near the foot of Porter Ave., a dock along the harbor front, from Porter Ave. to Jersey St., and a landing crib at the intake pier. Henry L. Lyon is Deputy Water Comr., Bureau of Water.

Contract has been let to the UNITED STATES CAST IRON PIPE & FOUNDRY CO., Buffalo, N. Y., for c.-i. pipe and special castings for the year July 1, 1906, to July 1, 1907, the amount not to exceed 2,000 tons in all, at its bid as follows: C.-i. pipe 3-in. at $35 per net ton at foundry, 4-in. $33 per net ton at foundry, 6-in. to 48-in. $29.50 per net ton at foundry.

NUTLEY, N. J.—THOMAS HAYES has secured the contract for the extension of water mains through Passaic, Brookfield, Edgewood, Satterthwaite and Whitford Aves., North Rd., Rutgers Pl. and William St., Nutley, at $8,626. The only other bidder for the work was James T. Boylan, whose price was $9,087.

ROYERSFORD, PA.—WILLAUER & CO., of Pottstown, have been awarded the contract to build the 2,000,000-gallon reservoir near Royersford, which will be 110 ft. higher than any other point in that town.

PHILADELPHIA, PA.—DAVID PEOPLES, 1000 Betz Bldg., has secured the contract at $117,200 for construction of the pumping station building, well and foundation, etc., in connection with the Torresdale filter plant. Contract No. 3. Major Cassius E. Gillette is Ch. Engr. of the Bureau of Filtration.

WASHINGTON, D. C.—Bids were opened July 23, by the Commissioners of the District of Columbia, for supplying water meters in the District of Columbia. The bids were as follows, (a) ⅝ disk; (b) ¾ disk: Cuyler & Mohler Co., Baltimore, (a) $5.75, $6.90, $7.60, (b) $8.55, $10.20, $11.40; Standard Meter Co., New York, (a) $7.60, (b) $10.40; Henry R. Worthington, 114 Liberty St., New York, (a) $6.25, $10.75, (b) $9.50, $15.75; Hersey Mfg. Co., 314 West Second St., South Boston, Mass., (a) $8, $12, (b) $12, $21; Thomson Meter Co., 79 Washington St., Brooklyn, N. Y., (a) $8, (b) $12; Union Water Meter Co., Worcester, Mass., (a) $8, (b) $12; Pittsburg Meter Co., East Pittsburg, Pa., (a) $8, (b) $12; National Meter Co., 84 Chambers St., New York, (a) $12, $10, $8, (b) $21, $15, $8; Neptune Meter Co., 120 Liberty St., New York, (a) $8, (b) $11.

WARRENTON, VA.—Bids are asked until Aug. 7, for constructing dam and reservoir. We have been officially advised that bids were asked for this work earlier, but an insufficient number of bids were received. H. I. Hutton is Chn. Water Com.

ASHEVILLE, N. C.—Bids are asked until Aug. 24, by A. S. Barnard, Mayor, for constructing either a masonry or a reinforced concrete reservoir of 5,000,000-gallon capacity. B. M. Lee is City Engr. (Advertised Engineering News.)

SHELBY, MISS.—We are officially informed that contract for constructing complete water works and sewer plant has been awarded to P. H. PORTER, of Clinton, Ky. J. R. Muran is Mayor; T. J. Mayes is Clk.

COLUMBUS, OHIO.—We are officially informed that on July 18 the Board of Public Works awarded to WESTWATER & CASEY, Columbus, Contract No. 15, to construct the Scioto River pumping station and intake, at $204,817. Other bidders were: D. W. McGrath, Columbus, $225,850; Ambrose B. Stannard, St. James Bldg., New York, N. Y., $250,421; Charles J. Close, Columbus, $292,147. John H. Gregory, Engr.-in Charge, estimated the cost at $205,067. Henry C. Maetzel is City Engr.

DAYTON, OHIO.—The Board of Public Service has let contract to CHARLES W. SNYDER, at about $90,000, for laying water mains in the southeastern part of the city.

CINCINNATI, OHIO.—Bids are asked until Aug. 21, by the Board of Trustees, Augustus Herrmann, Pres., for laying c.-i. pipes, special castings, and valves in Eggleston Ave. and Third St., and other miscellaneous work in connection therewith for the extension and betterment of the water distribution system of the city.

OTTERBEIN, IND.—Bids are asked until Aug. 8 for the construction of water-works. Estimated cost, $8,000. William Walsh is Town Clerk. George C. Morgan, of Chicago, Ill., is Engr.

CHICAGO, ILL.—Bids are asked by the Department of Public Works, 224 City Hall, until 11 a. m., Aug. 10, for constructing and installing two horizontal return tubular boilers, steam and water piping, and auxiliaries, complete and ready for operation, in the boiler room of the Springfield Ave. pumping station, located at Springfield Ave. and Bloomingdale Road.

FAYETTE, IOWA.—EDWARD SMEDLEY, of Dubuque, secured the contract for the extension of the water-works system of this town. Two miles of pipes, valves and hydrants are included in the contract.

WINONA, MINN.—Bids are asked until Aug. 10 by the Board of Municipal Works, S. S. Strause, Secy., for three 96 ins. × 16 ft. internal furnace boilers. G. P. Coleman is City Engr.

GARDEN CITY, KANS.—Bids are asked until 2 p. m., Sept. 28, by the U. S. Reclamation Service, Thomas Ryan, Acting Secy., for constructing deep and shallow wells, suction pipes, pumping stations, siphons, concrete-lined conduits and fencing. (Advertised Engineering News.)

ROCK RIVER, WYO.—We are officially advised that bids will be asked for early in August, for constructing reservoir for the Diamond Cattle Co. J. A. Whiting, Encampment, is Des. Engr.; Frank C. Bosler is Pres.

FORT WINGATE, N. MEX.—Bids, in triplicate, will be received by the Constructing Quartermaster, Fort Wingate, until Aug. 30, for the construction of a reservoir here.

CONCONULLY, WASH.—See "Storage Works, Conconully, Wash.," under Miscellaneous Contracts.

SUNNYSIDE, WASH.—See under Light and Power Plants.

LINDSAY, CAL.—The PIONEER MERCANTILE CO. has been awarded the contract by the Lindsay Heights Water & Electric Power Co., of Lindsay, Tulare County, to line 1½ miles of flume with hot asphalt.

HAZEN, NEV.—See Irrigation Ditches under Miscellaneous Contracts.

TORONTO, ONT.—J. H. McKNIGHT has secured contract for constructing mains for high pressure water system, at $94,720. C. H. Rust is City Engr.

WINNIPEG, MAN.—Bids are asked until 2.30 p. m., Aug. 27, by J. C. Gibson, Chn. Fire, Water and Light Com., for supplying two turbine pumps with electric motors for the city water-works. Col. H. N. Ruttan is City Engr.; C. J. Brown is City Clk. (Advertised Engineering News.)

EDMONTON, ALTA.—The contract for installing water mains in this town has been awarded to SHANNON & GRAHAM, at $11,534.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

PORTLAND, ME.—Bids are asked until Aug. 3, by George N. Fernald, Commissioner of Public Works, for building Section 4 of the West Side intercepting sewer. M. C. Hamilton is City Engr.

BOSTON, MASS.—Ten bids were received on July 23 for sewerage construction in Centre St. The lowest bid received was that of F. L. Williams, at $3,212.

Contract for constructing sewers in Milk St., between India and Oliver Sts., has been let to COLEMAN BROS., 15 Court Sq. John J. Leahy is Supt. of Sewers, 30 Tremont St.

SWAMPSCOTT, MASS.—We are officially advised that on July 20 G. M. BRYNE, 7 Water St., Boston, was awarded contract, at $10,322, for installing pipe sewers in several streets, about one mile long. R. Worthington, Dedham, Mass., is Engr.

NORWALK, CONN.—Bids are asked until noon, Aug. 6, by the East Norwalk Fire District Committee, Edward F. Smith, Chn., for constructing about 4,600 lin. ft. vitrified pipe sewer.

NEW YORK, N. Y.—The following bids were received July 26 for constructing sewers (a) in Grand Boulevard and Concourse, between 204th St. and Van Cortlandt Ave.; (b)

in 164th St., between Walton Ave. and the Grand Boulevard and Concourse, and in Grand Boulevard and Concourse, between 164th St. and Pond Pl.; (c) 36 Sewerage District No. 334; (d) in East 176th St., between Arthur and Crotona Aves.; (e) in East 173d St., between Southern Boulevard and Hoe Ave., and in Hoe Ave., between 173d and 172d Sts.; (f) in East 189th St., between Washington and Arthur Aves.: Joseph Bunio, 1929 Amsterdam Ave., (a) $37,856; P. J. Brennan, 959 East 173d St., (a) informal, (b) $5,592, (c) $25,635; (d) informal, (e) $11,200, (f) 28,471; Culgin-Pace Contracting Co., 787 Tremont Ave., (a) $33,346, (c) $27,230, (d) $5,413, (e) $13,038; John B. Malatesta, (a) $27,922; Briggs & McLaughlin, 19 East 130th St., (a) $36,516, (b) $5,000, (c) $29,500, (d) $5,000, (e) $11,775, (f) $14,065; Thomas Murray, 1871 Jerome Ave., (b) $5,228; W. T. Murray, 1155 Boston Road, (d) $5,224, (e) $10,400, (f) $13,004; Frank Del Balso, 1481 Hoe Ave., $10,819.

Bids are asked until 11 a. m., Aug. 8, by Bird S. Coler, Pres. Boro. of Brooklyn, for constructing sewer in Newkirk Ave., Brooklyn; also for constructing sewer basins at junction of Neptune Ave. and West Fifth St., and at junction of East 15th St. and Ditmas Ave.

CHESTER, PA.—Bids are asked until Aug. 6, by Samuel McClure, Chn. Sewer Com., for sewers, 18-in. terra cotta pipe in Barclay and Wilson Sts., and 3-ft. brick on Wilson St.

HOLLIDAYSBURG, PA.—AUGUST FOGEL has been awarded the contract for 1,600 ft. of 44-in. concrete sewer. Henry, Dillman & Loomis are Engrs., 12th St. and 12th Ave., Altoona, Pa.

NASHVILLE, TENN.—E. P. LEWIS has contract at $10,907, for construction of extension to sewer in North Edgefield.

The Nashville Board of Public Works has awarded to P. M. WARDEN, at $13,694, the contract for building the Pugley's Branch trunk sewer which will drain the territory in and adjacent to Lockeland and the 23d Ward. The sewer will run from Woodland and 14th Sts., south on 14th St.

CLEVELAND, OHIO.—Bids are asked until noon, Aug. 14, by the Board of Public Service, W. J. Springborn, Pres., for constructing the Marquette St. sewer extension, and a portion of the main intercepting sewer in Gordon Park.

SALEM, OHIO.—Bids are asked by the Board of Public Works, Salem, until Aug. 14, for construction of sewer on Broadway from Columbia to Zadok Sts. George Holmes is Clk.

LOCKLAND (Cincinnati Post Office), OHIO.—Bids are asked until noon, Aug. 27, by the Village Council, for constructing sewers. Albert Rolef is Clk.

EVANSVILLE, IND.—We are officially advised that contract for construction of sewers in Evansville has been let to WILLIAM HOWE, Evansville. W. F. Wunderlick is Clk.

HANCOCK, MICH.—Bids are asked by the City Council until Aug. 6 for constructing a sewerage system to consist of 6,000 ft. of tile sewers, 8 to 20-in. diameter, 15 manholes and 17 catch basins.

SAVANNA, ILL.—Bids are asked by the Board of Local Improvements, William H. Griffith, Pres., until 2 p. m., Aug. 6, for constructing vitrified tile pipe sanitary sewers, with manholes, flush tanks and lampholes.

DOWNERS GROVE, ILL.—Bids are asked by the Board of Local Improvements until 7.30 p. m., Aug. 8, for construction of approximately 11,500 ft. of 6-in. vitrified tile house drains.

PANA, ILL.—The contract for installing a sewerage system in Pana has been awarded to WELCH & CO., of Springfield, at $20,925. The highest bidder was E. H. Abadie & Co., of St. Louis, at $30,575.

ELGIN, ILL.—We have been officially advised that THOMAS J. PETER CO., Chicago, has contract to construct from 8 to 36-in. sewers in Elgin, to cost $147,000. The sewer will be 142,000 ft. Henry Dakin, City Engr.

OSHKOSH, WIS.—Bids are asked at office of the Board of Public Works, until Aug. 13, for construction of sewers in Oregon and Market Sts. W. A. Marden, A. F. Greunhagen and Otto C. Laabs, Board of Pub. Wks.

DES MOINES, IOWA.—We are officially advised that the KING LAMBERT CONSTRUCTION CO., Des Moines, has secured contract at $17,396, for constructing Northwest Sewer System. George D. Dobson is City Engr.

McPHERSON, KANS.—We are officially informed that contract for constructing about 6⅝ miles of 6, 8, 10 and 12-in. pipe sewer, at McPherson, has been let to the MUNICIPAL CONSTRUCTION CO., Kansas City, Mo., at $23,500. H. A. Roland, McPherson, is City Engr.

BASIN, WYO.—Bids are asked by the City Council until Sept. 1 for construction of about 2,350 ft. of 6 and 10-in. pipe sewers. Marshall-Whiting Co., of Basin, are Engrs.

FORT SMITH, ARK.—See under Streets and Roads.

DENVER COLO.—Bids are asked until about Aug. 4, for constructing 51,000 ft. of 8 to 18-in. sanitary sewer, with 160 manholes and 24 flushers. Estimated cost, $54,400. J. B. Hunter is City Engr.

SAN FRANCISCO, CAL.—In about 30 days bids will be received for constructing sewer in Market St., to extend from Second to East Sts., and to cost $80,000; also for construction of the East Potrero Intercepting Sewer, to cost $100,000. Thomas P. Woodward is City Engr.

LEWISTON, IDAHO.—Bids are asked until Aug. 8, for construction of sewers as follows: 5,300 ft. of 6-in.; 27,100 ft. of 8-in.; 5,150 ft. of 10-in.; 4,150 ft. of 12-in.; 2,350 ft. of 15-in.; 1,150 ft. of 18-in.; 250 ft. of 24-in.; 3,100 ft. of 30-in. pipe sewers; also 4,920 ft. of 36-in. concrete or brick sewers; 96 manholes, and 47 flush tanks. John E. Nickerson is City Clk.

FORT WILLIAM, ONT.—It is reported that the contract for constructing concrete and pipe sewers, bids received July 5, has been awarded to CAMERON & FLANAGAN, of Fort William, at $94,800. H. S. Hancock, Jr., is City Engr.

SAULT STE. MARIE, ONT.—Bids are asked until 8 p. m., Aug. 6, by C. J. Pim, Town Clk., for constructing Section K of the town sewer system, comprising about 15,000 lin. ft. 8 and 10-in. tile pipe. W. F. Grant is Town Engr.

EDMONTON, ALTA.—It is reported that the following are the bids received July 9 for the construction of a sewer system: (a) Contract No. 1, work and material cement sewer; (b) Contract No. 2, work and material cement sewer; TAYLOR, BOURCHIER & PETERS, Edmonton (awarded both contracts), (a) $162,556, (b) $17,925; Builders' Supply & Construction Co., Calgary, (a) $186,000; City Engineer, Edmonton, (a) $193,000, (b) $24,805; Canadian White Co., Montreal, Que., (a) $259,000, (b) $29,017.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

AUGUSTA, ME.—Bids are asked until Aug. 15, by the Mayor, for improving about ten miles of country roads. (Advertised, Engineering News.)

AGAWAM, MASS.—JAMES D. BRIDGE was the only bidder on a contract for building State Road in the Town of Agawam, and was awarded the contract, his price being $4,833.

BOSTON, MASS.—Bids are asked until Aug. 6 for constructing road on Charles River Reservation. William Jackson is City Engr.

PROVIDENCE, R. I.—Bids are asked until noon, Aug. 8, by the State Board of Public Roads, for constructing several sections of road in this state.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 9, by the Commissioners of Parks, Moses Herrman, Pres., for constructing McLaughlin Park, Brooklyn; also for regulating, grading and paving the roadway of McLaughlin Park, between Bridge and Jay Sts.

WHITE PLAINS, N. Y.—See Water-Works and Irrigation.

TROY, N. Y.—Bids are asked until Aug. 6, by Henry A. Van Alstyne, State Engr. and Surv., at Albany, for repairing the following state roads located in Rensselaer County: Troy and Brunswick, section 1, ¼ mile; section 2, about three miles; section 3, about 2½ miles; Brick Church-Rock Hollow, 3½ miles; Albin-Wynantskill, 1½ miles.

JOHNSTOWN, N. Y.—Bids are asked by Frank Bogaskie, City Clk., until Aug. 6, for paving with asphalt block, about 1,310 sq. yds., and resetting curb on West Main St.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Aug. 9, by the Park Department, Moses Herrman, Pres., for improving Mosholu Parkway, paving with asphalt the walks in St. Mary's Park, the Bronx, and for furnishing steam roller, fences and tree guards.

SYRACUSE, N. Y.—The following are the lowest bids received for paving six streets: Midland Ave., asphalt, Warner-Quinlan Co., $38,734; Tallman St., asphalt, Central City Paving Co., $8,458; Johnsonburg block, C. J. Sullivan, $8,708; University Ave., asphalt, F. J. Baker, $4,576; brick, $4,838; Clover St., asphalt, Central City Paving Co., $3,670; Johnsonburg block, C. J. Sullivan, $3,751; brick, Central City Paving Co., $3,879; Harrison St., asphalt, Central City Paving Co., $4,114; resurfacing South State St., Warner-Quinlan Asphalt Co., $5,967. F. J. Schnauher is City Engr.

NEW YORK, N. Y.—The following are the lowest bids received by Louis F. Haffen, Pres. of Boro. of the Bronx, July 26, for various sections of street work: For paving with asphalt blocks the roadway of Robbins Ave., from East 149th St. to Westchester Ave., Continental Asphalt Paving Co., 42 Broadway, $10,962; for paving with asphalt blocks the roadway of Cypress Ave., Asphalt Construction Co., 207 Broadway, $27,791; for regulating, grading, etc., in Anderson Ave., from 164th St. to Shakespeare Ave., John J. Hart Co., 54 Broad St., $25,800; for grading, regulating and paving with asphalt blocks the roadway of Kelly St., from Longworth to Intervale Aves., Asphalt Construction Co., $10,284; for regulating, grading, etc., in 183d St., from Jerome to Webster Aves., D. W. Moran, 562 Burnside Ave., $10,142; for paving with asphalt blocks the roadway of Hughes Ave., from Tremont Ave. to St. John's College, Asphalt Construction Co., $44,349; for regulating, grading, etc., in East 166th St., D. W. Moran, $20,378; for regulating, grading, etc., in Crane St., McCabe-Holland Co., 139th St. and Southern Boulevard, $12,602; for regulating, grading, etc., in McClellan St., Charles Schnuder, 167th St. and Morris Ave., $14,826; for paving with asphalt blocks the roadway of Summit Ave., from West 161st St. to West 165th St., Asphalt Construction Co., $10,796.

Following are the bids received for regulating, grading, etc., in Classon's Point Road: F. V. Smith, 147 East 125th St., $269,245; J. C. Rodger, 1929 Amsterdam Ave., $194,261; George L. Brown, 613 West 146th St., $220,630; A. G. Venuilye, 463 West 144th St., $199,050; Atlanta Construction Co., 482, East 91st St., $212,765; Thomas Cummings Construction Co., East 69th St. and Ave A, $228,562; Lawler Bros. Construction Co., $331,770; John J. Hart Co., 54 Broad St., $230,112.

Following are bids received for paving with creosote wood blocks in the roadway of the Southern Boulevard: Asphalt Construction Co., $196,534; U. S. Wood Preserving Co., 29 Broadway, $173,170; Republic Wood Paving Co., $213,366; William Kelly Co., $192,192.

OLD FORGE, N. Y.—Bids opened at the Town Clerk's office, town of Webb, Fulton Chain, for the building of two miles of road from Big Moose Station to Twitchell Lake. The bids were as follows: F. Mormon, $11,495; D. Moynehan, $11,400; D. B. Sperry, $10,400; Fred Baxter, $10,884. The Highway Commissioner declared D. B. Sperry's bid the lowest and awarded the contract to him, subject to the approval of the Town Board.

MOUNT HOLLY, N. J.—Bids are asked until 10 a. m., Aug. 13, by the Board of Chosen Freeholders, Joel Horner, Dir., for macadamizing about four miles of road in Burlington County.

NEW BRUNSWICK, N. J.—We are officially advised that JOHN H. HURLEY has contract to macadamize roads as follows: Cranberry Road, $22,519; Chiesequake Creek Road, $23,987; River Road, $25,980; Fort Reaching Road, $7,893. EDWARD LUENSEN has contract for macadamizing Jamesburg Road at $23,113. L. C. N. Bugger, Jr., is Engr. M. Irving Demarest is Clk.

WILKES-BARRE, PA.—Bids are asked until 2 p. m., Aug. 20, by James M. Norris, County Controller, for constructing a county macadam road, from Hillside to Huntsville, in Jackson Township. (Advertised Engineering News.)

OIL CITY, PA.—Bids are asked until 4 p. m., Aug. 13, by C. W. Mullally, Controller, for grading, curbing and paving certain streets in this city. E. S. Lawrence is City Engr. (Advertised Engineering News.)

ROCKVILLE, MD.—Montgomery County Commissioners are arranging to build two miles of Shoemaker road to extend from Silver Springs to Takoma Park and Four Corners road. Approximate cost, $12,000.

BALTIMORE, MD.—Bids are asked until noon, Aug. 6, by the Maryland Geological Survey Commission, W. W. Crosby, Ch. Engr., for improving a portion of the public highway between Baltimore and Washington, D. C.

ANNISTON, ALA.—Bids are asked until Aug. 8, for paving Noble St. from 9th to 13th Sts., inclusive, with either vitrified brick or bitulithic pavement.

VERONA, KY.—Bids are asked until Aug. 4, for constructing 5¼ miles of pike, known as the Verona and Mudlick Turnpike. W. M. Whitson is Pres.

ASHLAND, KY.—Bids are asked until 7 p. m., Aug. 13, by J. A. Meridith, City Clk., for constructing brick and bitulithic pavements in Ashland. J. O. Mathewson is Mayor.

PIQUA, OHIO.—Bids are asked until Aug. 6, by the Board of Public Service, for paving Wood St. with brick. We are officially advised that the bids received July 23 for this were rejected. W. B. Mitchell is Clk.; H. E. Whitlock is City Engr.

CINCINNATI, OHIO.—Bids are asked by the County Commissioners, Fred Dreihs, Clk., until noon, Aug. 17, for grading, curbing and paving the roadway of Mitchell Ave. with either granite, iron slag block or wooden block. Estimated quantities, 12,000 cu. yds. of grading, 22,745 sq. yds. paving, 3,800 cu. yds. concrete, 10,110 lin. ft. granite curb. Christian Bardes is Pres.

PAULDING, OHIO.—Bids are asked until Aug. 11, by Village Council, Edward H. Cooper, Clk., for improving a portion of Main St. by grading, draining, setting curb, macadamizing with crushed stone and sand and paving with brick.

WAUSEON, OHIO.—Bids are asked until Aug. 6, for paving certain streets of this town. The Riggs & Sherman Co., 613 The Nasey, Toledo, Ohio, are Consult. Engrs.

SULLIVAN, IND.—A contract for brick paving in this city has been awarded to the FOULKES-FORBES CO., of Terre Haute, Ind., at $32,000. R. L. Bailey is City Engr.

EAST CHICAGO, IND.—Bids are asked until Aug. 6, by Common Council, for paving with macadam portions of six streets, and with Westrumite process portions of 137th and Fir Sts. The engineer's estimate of the work is $71,724. John J. Keenan, Jr., is City Clk.

RICHMOND, IND.—Bids are asked by the Board of Public Works until 10 a. m., Aug. 8, for grading, graveling and bouldering North 15th St. Fred Charles is City Engr.

COVINGTON, IND.—Bids are asked by the Commissioners of Fountain County until 1.30 p. m., Aug. 7, for construction of 3½ miles of gravel road, known as the Ewell Road, and 1¾ miles of gravel road, known as the Jones Road in Mill Creek Township. Jas. T. Bell is County Audr.

TERRE HAUTE, IND.—Bids are asked by the Commissioners of Vigo County until 11 a. m., Aug. 11, for improvement, by grading and graveling, Roads Nos. 1 and 2, in Linton Township. Bids must be made separately. J. W. Denchie is County Audr.

PRINCETON, IND.—Bids are asked by the Commissioners of Gibson County until 2 p. m., Aug. 6, for construction of six macadamized roads aggregating 86,710 ft. in Johnson Township. Bidders will be required to bid on each road separately. H. R. Embree is Co. Audr.

SPENCER, IND.—WM. J. GROSS, Spencer, has been awarded the contract, at $6,183, for improvement of a piece of road in Franklin Township, two miles and 5,070 ft. in length. The work consists of straightening, grading, macadamizing or otherwise improving the same. George O. Mitten is Audr., Owen County.

BLOOMINGTON, IND.—Bids are asked by the Commissioners of Monroe County until noon, Aug. 8, for construction of 12,710 ft. of gravel road in Perry and Van Buren Townships; 10,680 ft. of gravel road in Perry Township; 14,500 ft. of gravel road in Richland, Bean Blossom and Washington Townships; and 2,980 ft. of gravel road in Bloomington Township. S. M. Kerr is County Audr.

ANN ARBOR, MICH.—The CENTRAL BITULITHIC CO., of Detroit, Mich., has secured a contract for 10,000 sq. yds. of bitulithic pavement.

PONTIAC, MICH.—Bids are asked until 7 p. m., Aug. 6, by the City of Pontiac, Joseph H. Thorpe, Clk., for paving Jackson St. William J. Fisher is City Engr.

ADRIAN, MICH.—Bids are asked until noon, Aug. 15, by the Committee on Streets and Bridges, for paving and curbing College Ave., from Church to Scott Sts., with either brick, bituminous macadam, asphalt or bithulithic. Total area, 11,360 sq. yds. John Mawdsley is City Clk. James Blair is City Engr. (Advertised Engineering News.)

CHICAGO, ILL.—Bids are asked by the West Chicago Park Commissioners until Aug. 7, for improvement of Marshall Boulevard, as follows: Macadam and granite block paving, concrete curb and gutter, sewers, drains, catch basins, electric conduits and manholes; concrete sidewalks; lawn hydrants; black soil, excavating and grading for lawn spaces; trees; electric light cable; electric lamps; cast-iron posts for electric lights; setting posts. At the same time bids will be received for improving Sacramento Ave. Joseph F. Haas is Secy.; A. C. Schrader is Engr.

WHEATON, ILL.—The contract for the first district of street improvement work has been awarded to the FORBES-FOULKES CO., of Terre Haute, Ind., at $55,815. This includes macadam paving and concrete curb and gutter, and the company is now in the market for steam rollers, graders, dump wagons and wheeled scrapers. The estimate of C. A. Prout, City Engr., was $75,925. Other work, including brick paving, will be let this month.

WAUKEGAN, ILL.—Bids are asked until Aug. 10 for macadamizing and paving with brick certain streets in Waukegan, and for constructing cement sidewalks. M. R. Miller is Supt. Pub. Wks.

OTTUMWA, IOWA.—Bids are asked until 8 p. m., Aug. 6, by the City Clerk, for paving and curbing Union St. from Main to Second St. W. H. O'Malley is Chn. St. Com.; C. R. Allen is City Engr.

DES MOINES, IOWA.—Bids are asked until noon, Aug. 14, by M. W. Rowell, Q. M., for constructing macadam roads and granolithic sidewalks at Fort Des Moines.

ST. LOUIS, MO.—Bids are asked by the Board of Public Improvements, W. B. Dryden, Secy., until Aug. 10, for improvement of 29 sections of streets. The estimated cost of the paving is $369,000.

Bids are asked until noon, Aug. 14, by the Board of Public Improvements, for grading, paving and curbing various streets in this city. Charles M. Talbert, C. E., Bd. of Pub. Improvements.

FORT SMITH, ARK.—The Board of Paving and Sewer Commissioners has awarded paving contract for this city to BURKE BROS., of St. Louis, Mo., at their bid of $601,225, and the sewer contract to GAWNE & CO., of Cincinnati, Ohio, at their bid of $471,454.

DALLAS, TEX.—The TEXAS BITULITHIC CO. has been awarded an additional contract for 15,000 sq. yds. of bitulithic pavement.

CHEHALIS, WASH.—Bids are asked until 2 p. m., Aug. 8, by the County Auditor, for covering about nine miles of State Road No. 5 with plank, gravel or crushed rock. W. A. H. Barley is Chn. of Bd.

PORTLAND, ORE.—The City has given notice of its intention to grade, pave and curb several streets in Portland. Thomas C. Delvin is Audr. City of Portland.

PORTLAND, ORE.—The WARREN CONSTRUCTION CO., of Portland, Ore., has been let a contract for 40,935 sq. yds. of bitulithic pavement.

OTTAWA, ONT.—The BARBER ASPHALT CO. has been awarded three contracts for asphalt paving by the Board of Works: Laurier Ave., $4,570; Dalhousie St., $28,460, and Clarence St., $7,466. There was no other tender, as the Warren Bitulithic Co. withdrew, saying it could not handle the work.

CHATHAM, ONT.—The WARREN BITUMINOUS PAVING CO., of Toronto, Ont., has secured a contract for 4,834 sq. yds. of bitulithic pavement.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

LEOMINSTER, MASS.—The Danforth Chemical Co. has plans out for one large building at the Gates Crossing. It is to be the largest insecticide manufacturing plant in the world. The new factory is to be nearly 400 ft. long, two stories high, and of irregular width, the widest part being 80, and the narrowest part 60 ft. wide.

HARTFORD, CONN.—The Hartford Manufacturing Co. has awarded the contract for the erection of an addition to its plant on South Ann St., to FLINT CONSTRUCTION CO., of Palmer, Mass. It will be a 5-story brick building with steel frame and 42 × 95 ft.

MIDDLETOWN, CONN.—Wilcox, Chittenden & Co., manufacturers of marine hardware, has awarded the contract for the erection of an additional factory to H. WALES LINES CO., of Meriden. The structure will be of brick, four stories high and 60 × 100 ft.

ALBANY, N. Y.—McDonald & Co., manufacturers of gas meters, will erect a factory building, on North Broadway. It is to be four stories high, 150 × 206 ft., with a 1-story wing, 60 × 80 ft., steel and concrete. Chas. G. Ogden, Arch., 61 State St., has the plans.

GOUVERNEUR, N. Y.—The International Talc Co. announces that it will rebuild mill No. 6, which is said to be the largest talc mill in the world. The old mill was recently burned. The new mill will be built of steel and cement.

GLENS FALLS, N. Y.—The Fowler Shirt Co. is about to build a 50 × 100 ft. 2-story frame addition to the factory on Maple St. GIFFORD, WILLIAMS & CO. have been awarded the contract.

NORTHAMPTON, PA.—The Northampton Brewing Co. has invited bids for a stock house. It is to be four stories high of concrete and brick and of fireproof construction. It is reported that special equipment is required.

PITTSBURG, PA.—It is reported that the Pittsburg Pneumatic Co., with a capital of $250,000, has been formed and will shortly build and operate a large plant for the manufacture of pneumatic tools.

BROWNSVILLE, PA.—According to a report from Uniontown, Pa., to the New York "Herald," the largest contract ever let by an independent coke concern has been given by the Thompson Connellsville Coke Co. to JOHN R. BENNETT, of Fairmount, W. Va., who is to build two plants, each of 400 ovens. They will be located near the Oriental and Republic works in Redstone and Luzerne townships.

PHILADELPHIA, PA.—Bids are asked by Geo. H. Sherwood, 233 Market St., for the erection of a 6-story factory building at 1516-1520 Callowhill St. The building is to be of brick and steel.

Ballinger & Perrot, Archs., 1200 Chestnut St., have plans ready for bids, it is reported, for a 5-story factory building, at Willow and Orianna Sts. for E. Nubschman. The building is to be of brick and steel.

W. Trumbower, Arch., 1420 Chestnut St., has plans ready for bids, it is reported, for an addition to dye house at 17th St. and Fairmount Ave., for Bornot & Bro. It is to be a 4-story concrete building.

Felix Isman will build a factory building at 1424 North Eighth St. It is to be a 3-story brick building.

WILMINGTON, DEL.—Bids are asked until Aug. 4 by the Ott Gas Engine Co., 33d and Walnut Sts. for constructing a large plant at this place.

BALTIMORE, MD.—It is reported that the Baltimore Refrigerator & Heating Co. will enlarge its plant, at Eutaw and Barre Sts. $50,000.

The Federal Distilling Co., Colgate Creek, will erect new brick building at its plant to cost about $20,000. Elevator will be installed.

WINSTON, N. C.—Chatham Mfg. Co., of Elkin, N. C., will increase capital stock from $50,000 to $350,000 and build another woollen mill; the new plant is to be located near Winston.

DILLON, S. C.—The Dillon Broom Works will erect a plant for the manufacture of brooms and mattresses.

BIRMINGHAM, ALA.—The Birmingham Iron Co., it is reported, has let contract to the OAK HILL MARBLE WORKS for the construction of a battery of coke ovens at Short Creek, Ala., at a cost of $50,000.

LOUISVILLE, KY.—Armour & Co., it is reported, will expend between $20,000 and $25,000 in improvements to plant, to include a 5-story addition to present building, the erection of new smokehouse, storage rooms, the installation of equipment for the manufacture of sausage; also an additional electric elevator.

MT. STERLING, KY.—The Patrick Cement Co. will build at Stanton a large plant of 500 barrels daily capacity.

COLOMA, MICH.—Spielman Bros. Co., 90 North Ave., Chicago, Ill., will soon erect a new plant here for the manufacture of vinegar. The main building is to be two stories high, 40 × 100 ft., concrete construction. Estimated cost, $12,000.

DETROIT, MICH.—The Detroit Insulated Wire Co. will erect a plant for the manufacture of insulated wire, street car cable, lead pipe for conduits and other electrical supplies. Estimated cost, $25,000.

ATLANTA, ILL.—A factory will be built by John Dowdy for the manufacture of concrete blocks.

CHICAGO, ILL.—Postle & Mahler, Archs., 204 Dearborn St., have let the concrete contract for a factory building, to be erected at 35th and Iron Sts., for J. W. Selton, 241 South Jefferson St., to F. E. BROWN, 138 Washington St. To be four stories high, 150 × 32 ft., built of reinforced concrete, Kahn system. Estimated cost, $200,000.

W. Ernst Walker, Arch., 168 Michigan Ave., has let the general contract for a manufacturer's building, to be erected at Wabash Ave. and 14th St., for Manufacturers' Association, J. C. Hills, 1319 Michigan Ave., to MORTIMER & TUPPER, 280 La Salle St. To be eight stories high, 70 × 170 ft., and built of brick and stone.

Postle & Mahler, Archs., 204 Dearborn St., have awarded the masonry and carpentry contracts for rebuilding a factory building at Carpenter and Fulton Sts., for the Geo. W. Pitkin Co., 53 North Carpenter St., to FRANK DOUGHERTY, 138 Washington St. To be five stories high, 55 × 100 ft., built of brick and mill construction.

Fire destroyed the factories of the Carlos Deckmeyer Box Co. and Heath & Milligan Paint Co. Estimated loss, $200,000.

Fire destroyed the plant of John Fitzpatrick & Co., soap and tallow manufacturers, at West 28th St. and Western Ave. Loss, $75,000.

Plans have been completed for a new brick plate mill to be erected for the Illinois Steel Co., at 86-88 Mackinaw Ave., to be of modern construction and erected at a cost estimated at $100,000. Work will soon be commenced.

W. M. Crilly, 167 Dearborn St., has the general contract for a roundhouse to be built on 49th St. for the Western Indiana R. R. Co. It will be built of brick, have composition roof, electric wiring, concrete foundation, and will include a machine shop, engineer and store house, pump house, offices, and cost $175,000. Mr. Crilly will sublet some of the work it is reported. E. H. Lee is Engr., at the Dearborn Station, Dearborn and Polk Sts.

LA CROSSE, WIS.—The contract for the erection of a large addition to the plant of the La Crosse Can Company, has been let to GROFF & DERR, 520 King St.

ST. PAUL, MINN.—The contract for a factory and warehouse on West Sixth St., for Dr. R. Schiffman has been awarded to the BRAYTON ENGINEERING CO. It is to be a reinforced concrete and fireproof building. Estimated cost, $75,000. James A. McLeod, Arch., 640 Endicott Bldg.

MINNEAPOLIS, MINN.—It is reported that the Armours will build a $5,000,000 packing plant here which is to be the third largest packing plant in the world.

KENDALL, WASH.—Evans, Coleman & Evans Co., has plans for a new cement mill to be erected here at a cost of $300,000.

MOUNTAIN VIEW, CAL.—Fire destroyed the entire plant of the Pacific Press Publishing Co., causing a loss of $350,000.

WELLAND, ONT.—The NIAGARA FALLS MACHINE & FOUNDRY CO. have been awarded the contract to supply four hundred tons of castings for the building of the new plant of the Ontario Iron & Steel Co.

HAMILTON, ONT.—The Berlin Co., of Beloit, Wis., will erect a factory at this place for the purpose of manufacturing woodworking machines.

ALMONTE, ONT.—Bids are asked until Aug. 6, by the Rosamond Woolen Co., for the erection of a stone weaving shed, 207½ × 75 ft.

PETERBORO, ONT.—The Trent Valley Sugar Co., will erect a sugar refinery. It is to be of brick and of fireproof construction. Estimated cost of building $40,000 and of equipment, $30,000.

CRANBROOK, B. C.—The entire plant of the East Kootenay Lumber Co. was destroyed by fire. Loss, $50,000.

MEDICINE HAT, ALTA.—THE ROBBINS IRRIGATION CO., Medicine Hat, Alta., has been awarded contract to irrigate 300,000 acres in Alberta. The company will spend $1,500,000 in erecting sugar plants, vegetable canning factories, etc.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

DRAINAGE.—Wheaton, Ill.—Plans are being prepared for drainage in the Big Woods district. A. L. Webster is Engr.

SEA-WALL.—Toronto, Ont.—Plans have been prepared for a sea-wall from the new fort to Spadina Ave. Estimated cost, $75,000. C. H. Rust is City Engr.

WHARF.—Glace Bay, N. S.—The Dominion Coal Co. is reported to be preparing plans for a wharf along the harbor, and a spur of railway from No. 2 colliery to the harbor.

BEAR-TRAP.—Wheeling, W. Va.—Bids are asked until 11 a. m., Aug. 14, by Major Geo. A. Zinn, Engrs., for delivering iron, steel, etc., for bear trap for dam No. 18, Ohio River. (Advertised, Engineering News.)

PILES, OAK LUMBER.—New York, N. Y.—Bids are asked until noon, Aug. 6, for furnishing and delivering about 1,000 oak piles (Class I.) and about 256,000 ft. B. M. oak lumber (Class II.). J. A. Bensel., Comr. Docks.

STEEL BARS.—Billings, Mont.—Nine bids were received on July 24 by the U. S. Reclamation Service for furnishing 405,000 lbs. of steel bars for concrete reinforcement. The lowest bid was submitted by Jones & Laughlin Steel Co., Chicago, at $5,643.

TELEGRAPH LINES.—Chicago, Ill.—The Chicago, Rock Island & Pacific Ry. Co. will make improvements to its telegraph department. Five hundred thousand dollars were recently appropriated for this purpose. J. G. Jennings is Supt. Telegraph, at Chicago.

DREDGING.—Philadelphia, Pa.—Bids are asked until noon, Aug. 15, for dredging the channel of the Delaware River. Thomas L. Hicks, Dir. Dept. Public Works. Specifications and proposals are on file at office of Engineering News, New York. (Advertised, Engineering News.)

DREDGING.—Boston, Mass.—Plans, specifications and bidding sheet for strengthening jetties, dredging the channel and anchorage basin and riprapping their banks, at Menamsha Inlet, are on file at office of Engineering News, New York. Bids are asked until Aug. 8, as advertised in Engineering News.

CEMENT.—Billings, Mont.—The Secretary of the Interior has awarded a contract to the ILLINOIS STEEL CO., of Chicago, for furnishing 40,000 bbls. of Portland cement for use in connection with the Shoshone and North Platte irrigation projects, Wyo. and Nebr., at $1.40 per bbl., f. o. b. cars at Chicago, Ill.

DAM.—Cincinnati, Ohio.—Bids were received on July 27 by Major J. G. Warren, Engrs., for furnishing material and labor for repair of dam No. 9 with concrete, Muskingum River, Ohio. Lowest bidders were Clifton Bros., Durant, Ohio, at $24,620. Bids in detail will be given under Contract Prices next week.

DAM WORK.—Portland, Ore.—The Secretary of the Interior has rejected the bids recently received for the construction of the Cold Springs dam, Umatilla irrigation project, Ore. The lowest bid received was $103,885 in excess of the estimates of the engineers, and the Secretary has directed that the work be readvertised.

GAP LATHE, GRINDER, ETC.—Washington, D. C.—Bids are asked until 10 a. m., Aug 28, by the Bureau of Supplies and Accounts, Navy Dept., for furnishing at the New York Navy Yard, one gap lathe, one boring machine, and one grinder. H. T. B. Harris, Paymaster-Gen., U. S. N. (Advertised, Engineering News.)

IRRIGATION DITCHES.—Hazen, Nev.—Bids are asked until 2 p. m., Sept. 15, for construction of about 82 miles of irrigation ditches, involving about 735,000 cu. yds. of excavation, with structures and bridges, in Carson Sink Valley, Nev. L. H. Taylor, Supervising Engr., U. S. Reclamation Service, at Hazen. (Advertised, Engineering News.)

MASONRY, COFFER-DAMS, ETC.—Winston-Salem, N. C.—Bids are asked until noon, Aug. 15, for construction of about 10,000 cu. yds. of concrete bridge masonry, together with the necessary coffer-dams and excavation, for the Winston-Salem South Bound Ry., at office of O. H. P. Cornell, Ch. Engr., Winston-Salem. (Advertised, Engineering News.)

CANAL WIDENING.—Detroit, Mich.—Bids were received as follows by Col. Charles E. L. B. Davis, Engrs., on July 24, for widening St. Mary's Falls canal: Great Lakes Dredge & Dock Co., Buffalo, N. Y., $552,530; Buffalo Dredging Co., Buffalo, N. Y., $622,080; McArthur Bros. Co., Chicago, Ill., $957,200; H. E. Talbott & Co., Dayton, Ohio, $851,430; Great Lakes Construction Co., Buffalo, N. Y., $625,860; John Griffiths and Geo. W. Griffiths, Chicago, Ill., $733,280. Itemized bids will be given under Contract Prices next week.

CANAL WORK.—Mitchell, Nebr.—The Secretary of the Interior has granted an extension of time of 20 days from May 1, 1906, to Robinson & Maney, contractors, for the completion of divisions 1, 2, 6, 7, 9 and 10, Interstate Canal, North Platte Project, Nebr. The work of the contractors was greatly delayed by inclement weather and floods, but the failure to complete the contract on time did not interfere with the delivery of water through the canal at the time agreed upon, and therefore caused no loss to the Government.

LIGHT-HOUSE TENDER.—Washington, D. C.—Bids have been rejected for the proposed light-house tender "Anemone" that was to have been added to the fleet on the great lakes. Bids were received on July 17, but all of them were over the limit of the appropriation—$140,000. The highest of the bids, under the lowest specification, was $230,000, from the Pusey Jones Co., of Wilmington, Del., and the lowest, $147,400, from the Fore River Shipbuilding Co., of Massachusetts. Either new bids will have to be invited or the specifications cut down.

CANAL WORK.—Portland, Ore.—The Secretary of the Interior has awarded contract to the PUGET SOUND BRIDGE & DREDGING CO., of Seattle, Wash., for the construction of storage feed canal, Umatilla irrigation project, Ore. The work called for in the contract involves the construction of about 25 miles of canal, extending from the Umatilla River near Echo, Ore., to the proposed Cold Springs Reservoir, and consists of about 700,000 cu. yds. of earth excavation; about 6,000 cu. yds. of rock excavation; about 2,300 cu. yds. of concrete, and 3,600 cu. yds. of riprap. The bid of the Puget Sound Co. was $161,388.

TUNNEL AND VIADUCT PROJECT.—Kansas City, Mo.—A press report states that the West Traffic Way Commission on July 10 adopted the plan proposed by P. D. Ridenour, of 1416 East Eighth St., Kansas City, and S. A. Mitchell, for a tunnel and viaduct to the West Bottoms, beginning at 14th and Wyandotte Sts., and terminating at 12th and Liberty Sts. It further recommended that a branch traffic way be constructed along face of West Bluffs, from 12th to Sixth Sts.; also that the money for construction be borrowed by city. The cost of tunnel and viaduct, including right-of-way for east end, will be about $1,193,949.

CANAL WORK.—Portland, Ore.—Bids for the construction of storage works and main canal in connection with the Okanogan irrigation project, Wash., were recently received and opened by the engineers of the U. S. Reclamation Service. The Secretary of the Interior has to-day rejected all bids received, on the ground that the lowest was $100,000 in excess of the estimates of the engineers, and directed that the work of schedule 2, main canal, from Salmon River, and appurtenant structures and the clearing of the reservoir of item 1, schedule 1, be done by the Reclamation Service under force account, and that the remainder of the work be readvertised.

MARINE BOILERS.—Washington, D. C.—Bids were opened at the Bureau of Supplies and Accounts, Washington, D. C., July 31 (on the account of the Bureau of Steam Engineering), for (a) 12 marine straight water-tube boilers, of the following dimensions: height, not over 13 ft.; breadth, not over 14 ft. 6 ins.; length, not over 13 ft.; weight, not over 500 tons; and (b) 8 marine straight water-tube boilers: height, not over 14 ft. 3 ins.; breadth, not over 13 ft.; length, not over 12 ft.; weight, not over 325 tons. The following bids were received: Babcock & Wilcox, New York, (a) $174,500; (b) $104,040. Oil City Boiler Works, Oil City, Pa., (a) $148,800; (b) $90,160.

CANAL.—Winnipeg, Man.—The Daily Consular and Trade Reports, of the Department of Commerce and Labor, on July 27th stated that "James J. Hill, the head of the Great Northern and other railroads, has about completed plans for the construction of a canal to connect the Great Lakes with Lake Winnipeg, in Canada. He is now constructing a Canadian railroad, and he has a line of steamers on the Pacific and boat lines on the Great Lakes which can be made of valuable use to such a canal. The canal as projected will follow the chain of small lakes from Lake Huron northwest through the Lake of the Woods to Lake Winnipeg and up the Winnipeg River to the city of that name. His Canadian system of railroads starts from Winnipeg."

CANAL WORK.—Klamath Falls, Ore.—The Secretary of the Interior has granted authority to the Reclamation Service to prosecute the work incident to the construction of 19 miles of canal and 27 miles of laterals, with appurtenances, in connection with the Klamath Project, Cal.-Ore., by force account, and to employ the force required to carry the work vigorously to completion in order that this distribution system may be ready for use when the mail canal, now under construction, is completed. The board of consulting engineers recently convened in Klamath Falls to open bids for this work reported that no bids were received. The time required to readvertise this work, it is believed, would so delay construction that it is improbable that water could be provided for irrigation by next season.

CANAL WORK.—Glendive, Mont.—On May 22, 1906, the Secretary of the Interior authorized the engineers of the Reclamation Service to construct structures on Divisions 5 to 9, inclusive, and laterals A to P, inclusive, Lower Yellowstone Project, Mont. and N. Dak., by force account, as proposals had been advertised for and none received. Since that time the Supervising Engineer has secured an informal bid for the work from JAMES MUNN, of Deadwood, S. Dak., for a total of $205,814, and the Secretary of the Interior has revoked his order on May 22 and awarded contract for the work to Mr. Munn. The work involves approximately 50,000 cu. yds. of excavation, 7,000 cu. yds. concrete, 3,000 cu. yds. of riprap, 550,000 lbs. of steel bars, 80,000 ft. B. M. of sheet piles, 450,000 ft. B. M. of lumber, and 8,000 ft. of terra-cotta pipe.

RIVER IMPROVEMENTS.—Buffalo, N. Y.—The Common Council has adopted and approved Plan "C" for the improvement of Buffalo River and Cazenovia Creek. The work will consist of widening, straightening, enlarging, clearing from obstructions, dredging, deepening, embanking and protecting Buffalo River and Cazenovia Creek, including altering the courses of river and creek and construction of new channels for the same, and for putting in navigable condition Buffalo River within the city limits. Plan "C" is divided into four sections, as follows: Section No. 1—Outlet drainage channel from Buffalo River to Lake Erie; No. 2—Buffalo River from the south line of Lot 65, Indian Reservation to its junction with Cazenovia Creek; No. 3—Buffalo River from its junction with Cazenovia Creek to the easterly city line; No. 4—Cazenovia Creek from its junction with Buffalo River to Cazenovia St. Francis G. Ward is Comr. Pub. Wks.

BARGE CANAL.—Albany, N. Y.—Bids were received on July 25, by N. V. V. Franchot, Supt. Public Works, Albany, for the following contracts for barge canal work. For contract No. 7 and No. 34 (for bridge superstructures) see item under Bridges in this issue. For contract No. 15, Champlain Canal, Section 3, for excavating the canal and protecting its sides, and constructing Lock No. 11, Dam No. 4, and Lock No. 12, Dam No. 5, and appertaining structures, a spillway, a highway, two masonry culverts, five bridges with their piers and abutments, and other incidental details, between Lake Champlain at Whitehall, Sta. 0-73, and Sta. 356 on Wood Creek, about 0.6 miles north of Comstock's P. O. Length of contract, 6.8 miles. The bidders were: Kinser Construction Co., 1609 Railway Exchange, Chicago, $1,649,460; ATLANTIC, GULF & PACIFIC CO., Park Row Bldg., New York, $1,516,960. Contract was awarded to this company at $1,509,060, a reduction from first total price. Itemized bids will be given under Contract Prices next week.

TUNNELS.—Chicago, Ill.—The Chicago Union Traction Co. on July 23 awarded contracts for lowering the three tunnels under the Chicago River, so as to give 26 ft. (instead of 17 ft. at present) for navigation. The GREAT LAKES DREDGE & DOCK CO., Chamber of Commerce Bldg., was given the contract for lowering the Van Buren St. tunnel. The bore will be dropped 9 ft., giving a clear channel of 27 ft.; 9 ft. will be cut from the top of the tunnel, after a false top has been installed, and the floor will be dropped a similar distance. The work will cost the traction company $180,000. JOHN P. AGNEW & CO., Unity Bldg., and ANGUS BROTHERS & CO., 188 Madison St., were awarded the contracts for installing the false tops and bulkheads in the La Salle St. and Washington St. tunnels, respectively. Bids for the completion of the lowering of the two bores will be opened later. Agnew & Co. bid $103,000 for their work on the La Salle St. tunnel and Angus Bros. bid $59,000 on the Washington St. work. J. Z. Murphy is Ch. Engr., Traction Co., 44 North Clark St.

DRY-DOCK.—Seattle, Wash.—Press reports from Washington, D. C., announce that plans for the largest and best dry-dock in the world are being prepared in the Bureau of Yards and Docks at the Navy Department. The last naval appropriation contained a provision for a dock to cost $1,250,000, to be constructed at the Bremerton Navy Yard, Puget Sound, Washington. This amount is larger than ever before appropriated for a dock. The new dock when completed, will be able to take in the largest battleship, either in course of construction or in contemplation. The location for the dock has already been selected at the yard and borings are now being made to learn the depth of the foundation. It is to be a concrete dock of the latest pattern, and the materials will be purchased on the Pacific Coast, if practicable. The dock is to be so constructed that it can be lengthened if vessels of greater length should be built in the future. It will be 37 ft. in depth over sill, which will provide for the docking of any vessel that can be built unless some unknown system of building is developed. The greater depth of the new dock is also designed to meet cases where a vessel has been injured and draws much more than the ordinary depth on account of the injury.

FOREIGN CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

OIL CONTRACT.—Guatemala.—The UNION OIL CO., of Los Angeles, Cal., has been given a contract by the Guatemala Central R. R. Co. for supplying 100,000 bbls. of crude oil a year for ten years. The oil is to be used for fuel purposes. The oil will be transported to San Jose de Guatemala in the company's ships.

OIL CONTRACT.—Japan.—The New York "Herald" on July 14 announced that the California Petroleum Refineries, Limited, a corporation composed of London and California capitalists and a rival of the Standard Oil Co., has signed a contract with the Japanese government for the delivery of 2,000,000 bbls. of oil each year for ten years, to be used on transports and some of the Japanese war ships. This is the largest oil contract ever negotiated in California, and gives a new impetus to the industry in the State. The price to be paid for the oil is not given out, but it is supposed it is sufficient to make the contract worth from $15,000,000 to $20,000,000. The oil will be supplied from the corporation's wells in the northern part of Santa Barbara County and shipped direct from San Luis Bay to the Orient.

MALAYSIAN RAILROADS.—D. F. Wilber, U. S. Consul-General at Singapore, in consular report on railway operations on the Malay Peninsula, states that "in the Federated Malay States, Province Wellesley and Malacca, the railways constructed, opened and operated amount at the present time to 396 miles, exclusive of the Sungei Ujong Railway, and constitute the Federated Malay States Railways system. No length in Johore Territory, which lies to the north of Singapore Island, is yet open to traffic. The length of branches is 74 miles 54 chains, exclusive of the Sungei Ujong Railway, 25 miles, a guaranteed railway worked by a company. All of the railways in Province Wellesley, Malacca and the Federated Malay States—that is, Perak, Selangor, and Negri Sembilan—have been constructed and are operated by the Federated Malay States government. The colonial government supplied funds to build the Malacca Branch, Tampin to Malacca, 21¼ miles, which was constructed by the Federated Malay States railways department for the colonial government. When completed, the Federated Malay States government purchased it from the colonial government. The Johore State Line is financed by the Federated Malay States government and is being constructed for the Johore government by the Federated Malay States railways department under a convention. The total expenditure on open lines up to Dec. 31, 1905, amounted to $37,261,923, Straits currency, equal to about $18,630,961 United States gold, which includes all expenditures, and the formation of four ports, also works at Penang and Malacca ports. The whole of this money has been supplied from current revenue of the Federated Malay States. The total length of the main trunk line, Johore Bahru to Prai, in Province Wellesley, will be 472½ miles when completed. There is a five-mile steam ferry between Penang and Prai, the northern terminus of these railways. From Johore Bahru to Woodlands, Singapore Island, there is a steam ferry one mile; Woodlands to Singapore City, the railroad distance is 15 miles. The total distance from Singapore to Panang by railroad will be 487½ miles, steam ferry six miles. The distance from Johore Bahru to Johore-Negri Sembilan frontier is 120½ miles, now under construction and good progress has been made for 30 miles from both ends. At the present moment, exclusive of the construction in Johore territory, there are 33 odd miles under construction south of Tampin, 21 miles of which is ready for opening. The line should be completed in 18 to 24 months, when a through service can be instituted. With the completion of the main trunk line and branches, transportation facilities for products of the native states will be greatly improved. Other lines are contemplated running northerly through Pahang, for which preliminary surveys have already been made, and routes have been explored through Kalantan, a province of Southern Siam, to Kota Bahru at the mouth of Kalantan River on the coast of the China Sea. These prospective lines will open up valuable tin-bearing countries and give producers of other products easy and cheap transportation facilities to sea ports."

CONTRACT PRICES.

SEWER SYSTEM.—Cape Girardeau, Mo.—Bids were submitted on July 2 for sewer system at Cape Girardeau by the following: (1) Talbott Construction Co., Logansport, Ind.; (2) Myers Construction Co., St. Louis, Mo.; (3) A. B. Carter & Co., Toledo, Ohio; (4) HILL-GAYNOR CONSTRUCTION CO., East St. Louis, Ill. (awarded contract); (5) Walter Coonan, East St. Louis, Ill. Granberry Jackson, Nashville, Tenn., Engr. Engineer's estimate was $61,500. Itemized bids were as follows:

BIDS RECEIVED ON JULY 2 AT CAPE GIRARDEAU, MO., FOR A SEWER SYSTEM.

	(1)	(2)	(3)	(4)	(5)
43,200 ft. 8-in. pipe	$0.16	$0.30	$0.15	$0.16	$0.15
6,000 ft. 10-in. pipe	.20	.35	.19	.21	.20
2,000 ft. 12-in. pipe	.25	.40	.24	.25	.24
1,420 ft. 15-in. pipe	.44	.60	.43	.44	.42
1,300 ft. 18-in. pipe	.65	.90	.64	.66	.64
900 ft. 20-in. pipe	.92	1.30	.91	.94	.92
1,520 ft. 22-in. pipe	1.10	1.50	1.10	1.08	1.05
900 ft. 24-in. pipe	1.31	1.70	1.31	1.35	1.43
900 8-in. Y-branches	.58	1.00	.58	.62	.65
125 10-in. Y-Branches	.77	1.40	.76	.81	.80
100 12-in. Y-Branches	1.72	2.50	1.72	1.74	2.00
40 15-in. Y-Branches	2.56	4.00	2.56	2.60	2.70
40 18-in. Y-Branches	.97	1.50	.96	1.00	1.20
20 20-in. Y-Branches	3.64	6.00	3.64	3.76	4.00
40 22-in. Y-Branches	4.40	6.00	4.40	4.30	5.00
30 24-in. Y-Branches	5.26	7.00	5.26	5.37	6.00
84 8-in. Tees	.60	1.00	.58	.62	.50
2 10-in. Tees	.80	1.25	.76	.81	.55
2 12-in. Y's	1.00	1.50	.96	1.00	2.50
2 15 × 12 Y's	2.00	2.50	1.72	1.74	4.00
2 18 × 12 Y's	2.50	4.00	2.56	2.60	5.00
1 20 × 12 Y	4.00	6.00	3.64	3.76	6.00
1 22 × 12 Y	5.00	6.50	4.40	4.30	7.00
2 24 × 12 Y's	6.00	7.00	5.26	5.37	7.80
10 12-in. Bends	1.00	1.25	.72	.75	1.00
Laying Pipe and Jointing:					
45,000 ft. 8-in.	.10	.05	.13	.06	.20
6,250 ft. 10-in.	.11	.07	.13	.09	.20
2,300 ft. 12-in.	.13	.07	.14	.11	.20
1,500 ft. 15-in.	.15	.07	.15	.15	.25
1,380 ft. 18-in.	.17	.08	.16	.17	.25
940 ft. 20-in.	.19	.09	.18	.20	.27
1,600 ft. 22-in.	.22	.09	.20	.23	.28
960 ft. 24-in.	.27	.10	.25	.26	.30
Excavation and Backfilling:					
13,600 ft. 0—6 ft. cutting	.25	.28	.21	.42	.40
28,900 ft. 6—8 ft. cutting	.40	.35	.37	.47	.45
12,900 ft. 8—10 ft. cutting	.72	.48	.73	.52	.50
3,080 ft. 10—12 ft. cutting	.90	.60	.89	.62	.55
1,010 ft. 12—14 ft. cutting	1.10	.80	1.18	.72	.65
150 ft. 14—16 ft. cutting	2.00	1.20	1.70	.82	1.00
200 ft. 16—18 ft. cutting	2.50	1.80	2.40	.92	1.25
81 Manholes, each	45.00	35.00	40.00	45.00	40.00
40 Flushtanks, each	75.00	80.00	80.00	75.00	80.00
2 Lamp-holes, each	8.00	10.00	10.00	8.00	25.00
4 tons Cast Iron Pipe, per ton	50.00	60.00	60.00	40.00	50.00
20 Catchbasins, each	25.00	30.00	20.00	25.00	50.00
1,000 ft. ¾-in. water connections	.25	.25	.30	.15	.25
10,000 ft. lumber, in place	30.00	25.00	30.00	25.00	30.00
20 yds. concrete, per yd.	8.00	8.00	10.00	6.00	8.00
500 yds. rock excavation, per yd.	4.00	4.00	4.00	4.00	5.00
Engineering and inspection	$1,200.00	900.00	1,100.00	900.00	900.00
Totals of bids	$62,151	$62,256	$61,467	$59,805	$66,768

*CANALS.—Billings, Mont.—Bids in detail received by the U. S. Reclamation Service, H. N. Savage, Supervis. Engr., at Billings, Mont., on July 11, for Division 1, Garland Canal, were as follows: (1) Jesse W. Crosby, Jr., Cowley, Wyo.; (2) Nels L. Olsen, Butte, Mont.; (3) Billings Construction Co., Billings. (No. 2 bid for entire work or none. The bids of the Billings Construction Co. were contingent upon the company being awarded schedules 1 and 2.)

BIDS OPENED JULY 11, 1906, AT BILLINGS, MONT., FOR DIVISION 1, GARLAND CANAL, SHOSHONE PROJECT.

Schedule I., Section 2, Station 183 to Station 240.

	(3)
138,000 cu. yds. grading (Class 1)	$0.26
14,000 cu. yds. grading (Class 2)	.60
62,000 cu. yds. grading (Class 3)	1.25
6,000 cu. yds. overhaul	.015
6,000 cu. yds. rolling embankments	.01
250,000 gallons water for puddling	.60
50 cu. yds. concrete	20.00
550 cu. yds. rubble masonry	3.50
100 cu. yds. riprap	3.50
20 cu. yds. gravel foundation	1.00
130 lin. ft. laying 30-inch pipe	2.00
260 lbs. wire fabric	.10
Total	$125,661

Schedule II., Section 3, Station 240 to Station 287 + 97.9.

	(3)
117,000 cu. yds. grading (Class 1)	$0.26
100 cu. yds. grading (Class 2)	.60
8,000 cu. yds. grading (Class 3)	1.25
176,000 cu. yds. overhaul	.015
52,000 cu. yds. rolling embankment	.01
2,400,000 gallons water for puddling	.60
710 cu. yds. concrete	17.00
40 cu. yds. riprap	3.50
200 cu. yds. gravel foundation	1.00
100 lin. ft. laying 12-inch pipe	1.00
320 lbs. wire fabric	.10
16,610 lbs. steel for reinforcement	.06
Total	$58,619

Schedule III., Section 4, Station 287 + 97.9 to Station 397.

	(1)	(3)
104,000 cu. yds. grading (Class 1)	$0.30	$0.24
100 cu. yds. grading (Class 2)	1.00	.60
100 cu. yds. grading (Class 3)	1.50	1.25
19,000 cu. yds. overhaul	.015	.015
100 cu. yds. rolling embankment	.01	.01
285 cu. yds. concrete	10.00	15.00
140 cu. yds. riprap	4.00	3.50
130 cu. yds. gravel foundation	4.00	3.50
800 lin. ft. laying 30-inch pipe	1.50	2.00
1,560 lbs. wire fabric	.10	.10
Total	$37,022	$32,407

Schedule IV., Section 6, Station 406 to Station 443 + 14.1.

	(3)
58,000 cu. yds. grading (Class 1)	$0.25
100 cu. yds. grading (Class 2)	.60
11,000 cu. yds. grading (Class 3)	1.25
13,000 cu. yds. rolling embankments	.01
50 cu. yds. concrete	15.00
50 cu. yds. riprap	3.50
20 cu. yds. gravel foundation	1.00
130 lin. ft. laying 30-inch pipe	2.00
260 lbs. wire fabric	.10
Total	$29,671

Schedule V., Section 7, Station 443 + 14 to Station 500.

	(1)	(3)
95,000 cu. yds. grading (Class 1)	$0.30	$0.25
100 cu. yds. grading (Class 2)	1.00	.60
500 cu. yds. grading (Class 3)	1.50	1.25
14,000 cu. yds. overhaul	.015	.015
10,000 cu. yds. rolling embankments	.01	.01
10 cu. yds. concrete	10.00	20.00
10 cu. yds. riprap	4.00	3.50
Total	$29,800	$24,980

Schedule VI., Section 8, Station 500 to Station 586.

	(3)
85,000 cu. yds. grading (Class 1)	$0.26
100 cu. yds. grading (Class 2)	.60
100 cu. yds. grading (Class 3)	1.25
33,000 cu. yds. overhaul	.015
20,000 cu. yds. rolling embankments	.01
1,000,000 gallons water for puddling	.60
155 cu. yds. concrete	15.00
1,200 cu. yds. riprap	3.50
60 cu. yds. gravel foundation	1.00
5,800 lbs. steel for reinforcement	.06
18,000 lbs. placing structural steel gates and fittings	.06
500 ft. B. M. lumber	40.00
40 lbs. wire fabric	.10
Total	$31,617

Schedule VII., 7 Miles of Canal, Sta. 183 to Sta. 586, Except Sta. 327 to 330 and Sta. 397—406.

	(2)
597,000 cu. yds. grading (Class 1)	$0.23
14,500 cu. yds. grading (Class 2)	.60
81,700 cu. yds. grading (Class 3)	1.15
248,000 cu. yds. overhaul	.015
101,100 cu. yds. rolling embankments	.01
3,650,000 gallons water for puddling	.60
1,260 cu. yds. concrete	10.00
550 cu. yds. rubble masonry	3.00
1,540 cu. yds riprap	3.00
430 cu. yds. gravel foundation	.90
100 lin. ft. laying 12-inch pipe	1.50
1,060 lin. ft. laying 30-inch pipe	2.00
2,440 lbs. wire fabric	.10
22,410 lbs. steel for reinforcement	.06
18,000 lbs. placing structural steel, gates and fittings	.04
500 ft. B. M. lumber	50.00
Total	$270,747

Grand Total for (3) ..... $302,955.

*PAVING.—Norfolk, Va.—Bids were received on June 22 by L. W. Tazewell, Chn. Street Com., for paving Main St. with any one of the following pavements: (1st) Granite block on a concrete foundation; (2d) creo-resinate on a concrete foundation; (3d) sheet asphalt on a concrete foundation; (4th) Warren's Bitulithic on a concrete foundation; (5th) bituminous macadam on a concrete foundation. The bidders were: (a) Memphis Asphalt Co. (asphalt); (b) Atlantic Bitulithic Co.; (c) W. A. Young (creo-resinate); (d) Southern Construction Co., Atlanta, Ga. (asphalt). W. T. Brooke is City Engr. The bids in detail are here given:

BIDS RECEIVED JUNE 22 FOR PAVING MAIN ST., NORFOLK, VA.

	(a)	(b)	(c)	(d)
8,500 ft. new granite curb, set	$1.05	$1.00	$1.00	$0.89
1,800 ft. old granite curb, reset	.15	.25	.11	.15
21,000 sq. yds. paving	2.12	2.40	3.25	1.97
4,300 lin. ft. extra concrete under car tracks	1.66	3.00	1.75	1.73
6,220 lin. ft. setting curb furnished by city.	.15	.25	.07	.14½
10,930 sq. yds. laying old block on sand	.60	.40	.42	.55
5,800 lin. ft. relining old curb	.08	.25	.04	.05
8,600 sq. yds. laying old block on cobble	.79	.60	.58	.55
Totals	$75,602	$84,787	$94,719	$68,577

The Southern Construction Co. also bid $3.25 per yd. for granite block and $3.18 for creo-resinate.

PAVING, EXCAVATING. — Waterbury, Conn.—Bids were received on July 3 for excavating soil and paving bank of Naugatuck River, Contract No. 6, as follows: (1) AUGUSTE SAUCIER, South Framingham, Mass. (awarded contract); (2) Bruno, Salomone & Petitti, Boston, Mass.; (3) Coleman Bros., Boston; (4) Rowe & Perini, South Framingham; (5) Fred. T. Ley & Co., Springfield, Mass. William G. Taylor is Resident Engr., Sewage Disposal Works.

BIDS RECEIVED ON JULY 3 FOR PAVING BANK OF NAUGATUCK RIVER, WATERBURY, CONN.

	(1)	(2)	(3)	(4)	(5)
100,000 cu. yds. earth excavation	$0.38½	$0.43	$0.41	$0.49	$0.45
500 cu. yds. rock excavation	1.25	2.00	1.50	2.00	2.00
2,500 cu. yds. slope paving	2.00	3.50	3.00	3.00	5.50
7,000 sq. yds. riprap	.87½	.45	1.50	.65	1.50
180,000 cu. yds. overhaul	.01	.01	.01	.01	.01
Totals	$52,050	$57,700	$61,550	$63,850	$72,050

*CANAL.—Billings, Mont.—The bids in detail received on June 20 by the U. S. Reclamation Service for Division 3, Huntley Project, Mont., for about 10 miles of main canal and seven miles of high line canal, were as follows: (a) Hughe & Olson, Butte, Mont.; (b) Cook Construction Co., 1468 Fourth St., Des Moines, Iowa; (c) Billings Construction Co., Billings: Excavation, Class I., 350,000 cu. yds., (a) 22 cts., (b) 23 cts., (c) 29¾ cts.; excavation, Class II., 100 cu. yds., (a) 60 cts., (b) $1.00, (c) 90 cts.; excavation, Class III., 100 cu. yds., (a) $1.50, (b) $3.00, (c) $1.50; riprap, 100 cu. yds., (a) $4.00, (b) $7.00, (c) $4.00. Total for schedule, (a) $77,610, (b) $81,600, (c) $104,765.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—

Pittsburg f. o. b cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.20 to 2.25 cts.; bolts, square nuts, 2.55 to 2.60 cts.; bolts, hexagonal nuts, 2.70 to 2.75 cts.

RAILS, STEEL—

New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $28 to $32; old iron f. o. b. New York, $19.50 to $20.50; old steel, long lengths, $16 to $16.50; old steel, short pieces, $14 to $14.50.

Pittsburg—Standard sections, at mill, $28. standard, second quality, $27; light rails, 12 to 25 lbs., $28 to $32.

STRUCTURAL MATERIALS—

New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles, 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.89½ cts.; tees, 3-in. and larger, 1.89½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—

New York—at tidewater—Sheared plates, tank, 1.76½ to 1.86½ cts.; flange, 1.84½ cts.; marine, 2.04½ to 2.24½ cts.; still bottoms, 2.04½ cts.; fire-box, 2.24½ to 3.05 cts.

Pittsburg—Tank, ¼-in. thick and heavier, 1.60 cts.; black sheets, 27 gage, 2.40 to 2.45 cts.; black sheets, 28 gage, 2.50 to 2.55 cts.

IRON—

Pig Iron:

At New York—tidewater—		
Northern—		
No. 1 X Foundry	$18.50 to	$19.00
No. 2 X Foundry	17.75 to	18.50
No. 2 plain	17.25 to	17.75
Gray forge	16.00 to	16.50
Basic		17.50
Virginia—		
No. 1 Foundry	18.10 to	18.60
No. 2 Foundry	17.90 to	18.10
Basic 0	19.10 to	19.60
Southern—		
No. 1 Foundry	18.00 to	18.50
No. 2 Foundry	17.50 to	18.00
No. 3 Foundry	17.00 to	17.50
No. 4 Foundry	16.50 to	17.00
No. 1 Soft	18.25 to	18.75
No. 2 Soft	17.50 to	18.00
Gray Forge	16.00 to	16.50
Mottled	15.50 to	16.00
Basic		18.25
At Chicago—		
Lake Superior Charcoal	$19.25 to	$19.50
Northern Coke Foundry, No. 1	19.00 to	19.25
Northern Coke Foundry, No. 2	18.50 to	18.75
Northern Coke Foundry, No. 3	18.00 to	18.25
Northern Scotch, No. 1	19.25 to	19.50
Ohio Strong Softeners, No. 1	19.05 to	19.30
Ohio Strong Softeners, No. 2	18.55 to	18.90
Southern Coke, No. 1		17.90
Southern Coke, No. 2		17.40
Southern Coke, No. 3		16.90
Southern Coke, No. 4		16.40
Southern Coke, No. 1 Soft		17.90
Southern Coke, No. 2 Soft		17.40
Southern Gray Forge		16.15
Southern Mottled		15.65
Malleable Bessemer	18.50 to	18.80
Standard Bessemer	19.30 to	19.60
Jackson Co.&Kentucky Silvery	22.30 to	22.80
At Pittsburg, f. o. b. cars—		
No. 2 Foundry	$18.35 to	$18.85
Gray Forge	16.35 to	16.50
Bessemer Iron	18.10 to	18.35
Ferro-Manganese	70.00 to	80.00
Muck Bars		28.00
Iron Bars	1.25 to	2.00

Cast-Iron Pipe,

New York—Carload lots, net tons, 6-in., at tidewater, $32.

Chicago—4-in. water pipe, $32.50; 6-in. and larger; $31.50; with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—

Asphaltum:

Ventura and other California asphalts, $19 to $21 per ton at New York; Trinidad refined, $20 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $30.

Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 18.50 to 18.62½ cts.; electrolytic, 18.25 to 18.37½ cts.; casting, 17.75 to 18 cts.
Lead:
New York, spot, 5.75 cts.
Spelter:
New York, spot, 5.95 to 6.05 cts.
Tin:
New York, spot, 36.60 to 36.95 cts.
Tar:
New York, $5 to $5.50 per bbl.
Pitch:
New York, $3 to $3.20 per bbl.
LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50. 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 x 9 ins. x 8 ft., 67 to 69 cts.; 6 x 8 ins. x 8 ft., 62 to 64 cts.; 7 x 9 ins. x 8 ft., 75 to 77 cts.; 7 x 8 ins. x 8½ ft., 74 to 75 cts.; 7 x 9 ins. x 8½ ft., 79 to 80 cts.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 42.

RAILROAD GRADING AND CONCRETE MASONRY.

Syracuse, N. Y.

The Syracuse Railroad Construction Company of Syracuse, New York, propose to let the grading and masonry over Section No. 8 of the Rochester, Syracuse & Eastern Railroad, from Savannah to Port Byron. This work is about 7 miles of double-track railroad and involves about 250,000 cu. yds. of Excavation, 4,500 cu. yds. of Concrete, and about 30,000 lineal feet of Piling. About 2,700 cubic yards of the above concrete will be in 27 Piers and 2 Abutments crossing the Seneca River, requiring sheet piling, cofferdam and caisson work.

Contractors who are equipped for this work and who desire to bid may obtain full particulars from the Syracuse Railroad Construction Company, Syracuse.

The contract will be awarded Aug. 15,1906.

T. H. MATHER,
5-1t Chief Engineer.

MACADAM AND GRAVEL ROADS.

Augusta, Maine.

Sealed proposals will be received by the Mayor of Augusta, Maine, until August 15, 1906, for the improvement of about ten miles of public highways (county roads).

Each proposal shall be accompanied by a certified check, payable at sight to the order of "the City Treasurer of Augusta," for five per cent. of the amount of the proposal; which check shall be held until the execution of the contract. The successful bidder who fails to enter into contract will forfeit his check. When the contract has been made, the various checks will be returned to the bidders who deposited them.

The successful bidder must furnish a bond for the faithful performance of the work; such bond to be for the full amount of the contract, and with sureties and in form satisfactory to and approved by the Committee.

The place of residence of every bidder, the post-office address, with county and state, must be given after the signature.

All proposals must be made on blank forms furnished for the purpose, and must be placed in sealed envelopes, endorsed "Proposal for Improvement of Road," and addressed and delivered to the Mayor not later than the date and time above named.

The contractor to whom the contract may be awarded will be required to appear at the Mayor's office, with the surety offered by him, and execute the contract within three days from the date of notification of such award, and in case of failure or neglect so to do he will be considered as having abandoned it and shall forfeit the check accompanying his proposal.

The right is reserved by the Committee to reject any and all bids.

General plans of the work and form of contract and specification may be seen at the office of the engineer.

COMMITTEE ON HIGHWAYS & SEWERS,
5-2t Augusta, Maine.

FORT DUPONT, DELAWARE CITY, DEL., July 28, 1906.—Sealed proposals, in triplicate, will be received here until 11 a. m., August 27, 1906, for extension of granolithic sidewalks at Fort Mott, N. J. Information furnished on application. U. S. reserves right to accept or reject any or all bids or any part thereof. Envelopes containing bids should be endorsed "Proposals for Sidewalks," addressed Capt. LOUIS F. GARRARD, Jr., Q. M. 5-3t

CONCRETE STEEL ARCH VIADUCT.

Cleveland, Ohio, July 27, 1906.

Sealed proposals will be received at the office of the Secretary of the Board of Public Service, No. 105 City Hall, Cleveland, Ohio, until 12 o'clock M., Aug. 16, 1906, for constructing a Concrete-Steel Arch Viaduct on Independence Road, Washington Park. Contractors may obtain plans and specifications on depositing with the Park Engineer a certified check for $20.00, made payable to the Board of Public Service, which check will be returned upon the return of plans and specifications.

Plans and specifications may be seen and blank proposals can be obtained at the office of the Park Engineer, after Aug. 1, 1906.

Each proposal must contain the full name of the party or parties making the same, and all persons interested therein, and must be accompanied by a certified check for seven thousand five hundred ($7,500.00) dollars payable to the Board of Public Service on a solvent bank in the city, as surety that if the proposal is accepted a contract will be entered into.

No proposals will be entertained unless made on the blanks furnished by the Park Engineer and delivered at the office of the Secretary of the Board of Public Service, No. 105 City Hall, previous to 12 o'clock M. on the day specified.

The city reserves the right to reject any or all bids.

W. J. SPRINGBORN,
President Board of Public Service.
Countersigned: A. R. CALLOW,
5-2t Secretary Board of Public Service.

PROPOSALS will be received at the Bureau of Supplies and Accounts, Navy Department, Washington, D. C., until 10 o'clock a. m., August 28, 1906, and publicly opened immediately thereafter, to furnish at the Navy Yard, New York, N. Y., one gap lathe, one boring machine and one grinder. Applications for proposals should refer to Schedule 78. Blank proposals will be furnished upon application to the Navy Pay Office, New York, N. Y., or to the Bureau. H. T. B. HARRIS, Paymaster-General, U. S. N. 5-2t

Situations Open

WANTED.—A first-class, all-round construction superintendent for railroad work in Alaska. Must have extensive experience in modern railway construction, steam shovels, machinery, etc. Also several good foremen; must furnish references as to experience and character, and strictly sober. Address, stating age, salary wanted, experience, etc., "Z. A. 5," Engineering News, New York. 5-4t

WANTED.—A salesman, familiar with water-wheel machinery. Preference will be given to applicants acquainted with engineering firms engaged in water power development, and with the leading men connected with water power installations. Technical training not absolutely essential though preferable. A permanent position for the right man. State age, whether married or single, present or past business connections and references. Address "A. A. 5," Engineering News, New York. 5-1t

WANTED.—Good office and business manager with cash to join new water, gas and electric light plants; must be able to handle men. Address NORTH TEXAS SECURITIES CO., Dallas, Texas. 5-2t

WANTED.—Civil engineer, by company constructing several hydro-electric plants. Must be competent to take charge of locating transmission lines, or other field work, drafting, etc. State experience. Address "F. A. 5," Engineering News, New York. 5-2t

TRANSITMAN AND RODMAN; railway work in middle west; state age, experience and salary desired. Address "M. A. 5," Engineering News, New York. 5-1t

WANTED.—Man to design masonry, make estimates and tracings, etc., on railroad work; no foreigners; location, New York City; good opportunities. Address "K. A. 5," Engineering News, New York. 5-1t

EXPERIENCED DRAFTSMAN for car shops; wages $75 per month; state age. GREGG CO., Newburg, N. Y. 5-1t

WANTED.—Young man, technical graduate, for mechanical and electrical engineering work in connection with increasing power facilities. Must understand installing and testing of machinery and be a good draftsman. Familiarity with water power and hydraulic problems is desirable. Reply, stating experience and salary expected, to E. I. DU PONT CO., Experimental Station, Henry Clay Postoffice, Delaware. 5-1t

WANTED.—One instructor at a salary from $900 to $1,200; one assistant in surveying, and one assistant in testing laboratory, $500 each, in school of civil engineering of a prominent university in the middle West. Address "E. 5," Engineering News, New York. 5-2t

WANTED.—Assistant engineer in office of engineer of maintenance of way; salary, $125 per month; must have had similar experience. Give all particulars. Address "L. A. 5," Engineering News, New York. 5-1t

CIVIL ENGINEER representative in Cuba. Must be experienced in construction work, such as grading, concrete piers, etc. Capable to organize and direct work as well as conduct negotiations. Preferably not over forty years of age. Address "K. B. 5," Engineering News, New York. 5-2t

WANTED.—By contracting firm, for work in N. Y. C., several draftsmen having had at least 2 years' experience; state salary expected. Address "L. B. 5," Engineering News, New York. 5-1t

WANTED.—A young American man, with at least 2 years' experience at making shop detail drawings in structural steel work, to assist in estimating department of a large contracting firm. State age, experience and salary expected. Address "G. B. 5," Engineering News, New York. 5-1t

WANTED.—Structural draftsmen experienced in designing steel railroad bridges, by a railroad in vicinity of New York. State age, experience, references and salary. Address "I. B. 5," Engineering News, New York. 5-1t

SUPERINTENDENT WANTED for small coal, gas and water plant in South. Applicant must have knowledge of manufacture and good business ability. State salary expected. Address "H. B. 5," Engineering News, New York. 5-1t

Engineer-Representative Wanted

Engineer wanted in city outside New York to make estimates and solicit business for a well established and favorably known company making a specialty of reinforced concrete design and construction and allied work. Operations to be conducted on a basis of cost to owner plus a fixed profit. Investmen in capital stock essential. Address "F. B. 5," Engineering News, New York. 5-3t

Miscellaneous Wants

WANTED

One hydraulic freight elevator of 5 tons capacity. Can be second-hand if in good condition. Height of lift 27 feet.

THE ECONOMY LIGHT, FUEL & POWER CO.,
5-2t Lockport, N. Y.

ENGINEERING SURVEYS—ESTIMATES

Reports Carefully and Promptly Made

Call or Address, 10-K, 220 Broadway
5-1t **New York**

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5-1t **New York**

NOTICE

We have the franchises will you invest $1,000 to $5,000 cash in building new Water-Works, Gas Works, Electric Light Works, in good North Texas and Okla. Towns? Will assure you $5,000 to $25,000 profit in first bonds and cash in twelve months. Address NORTH TEXAS SECURITIES CO., Dallas, Tex. 5-2t

Will You Invest $1000 to $5000 Cash?

Join syndicate buying Government lands from $5.00 to $15.00 per acre, make a bale cotton, 40 bushels wheat and 80 bu. oats and corn per acre? Can double your money in twelve months. NORTH TEXAS SECURITIES CO., Dallas, Texas. 5-2t

IF you intend ENGAGING RELIABLE ENGINEERING ASSISTANCE we suggest that you insert a notice on our "Want" page under

Situations Open

The cost is 5 cents a word an insertion. Copy may be left without extra charge at any office in New York of the AMERICAN DISTRICT TELEGRAPH CO., or at the office of

THE ENGINEERING NEWS PUBLISHING CO.

FOR SALE

FOR SALE.

One Lidgerwood, 550 Foot Span, Cableway

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